
Accident Data Analysis and Investigation Tools

NASS Case Summaries (1997)

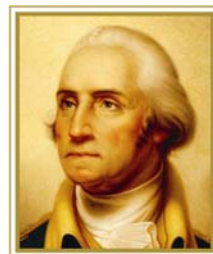
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Prepared for:

Motor Vehicle Fire Research Institute

April 6, 2004



THE GEORGE
WASHINGTON
UNIVERSITY
WASHINGTON DC

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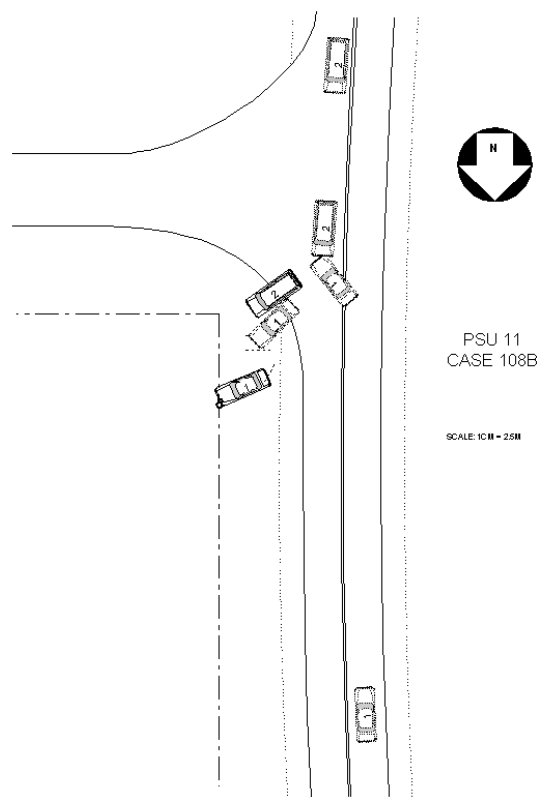
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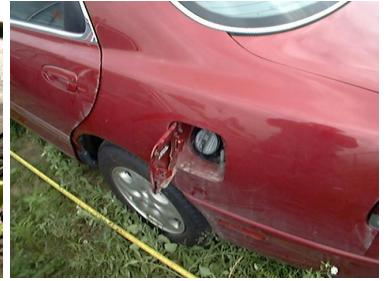
Summary:

The 1993 Mazda 626 4 door was heading southbound on the curving, two lane roadway when the car crossed into the oncoming travel lane. The northbound 1994 Chevrolet Astro van attempted to avoid the car by swerving to the right, but the vehicles collided anyway. The unrestrained driver in the Mazda was partially ejected out the right/front window, and sustained critical injuries. he was pronounced dead at the scene. The two restrained occupants in the van sustained rather minor injuries. the driver was treated and released, while the front right seat passenger was kept overnight and then released. Both vehicles were towed due to damage.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mazda	626	1993	1	49	MALE	6=Maximum
2	MINIVAN	Chevrolet	Astrovan	1994	1	70	MALE	1=Minor
2	MINIVAN	Chevrolet	Astrovan	1994	2	70	FEMALE-NOT PREG	2=Moderate

Occupant: 1997-11-108-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Not REPORTED
Alcohol Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	26

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	41 -36 -20
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F Z E W 3
Damage (C1-C6)	0 3 10 18 26 36
Crush (L and D)	140 33
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	51.366354855
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mazda 626
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	118

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	49	Height	165	Weight	61
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-11-108-1-1
MAIS	6=Maximum
Seat Position	Front left side

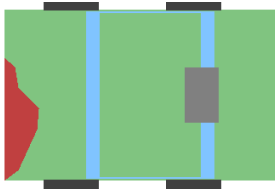
AIS Level	Injury Description	Contacts
6=Maximum	Myocardial lacerations, multiple	Center panel
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Center panel
2=Moderate	Sternal fracture	Center panel
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Front header
3=Serious	Unconscious on admission, length NFS	Right A pillar
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	297602	Windshield
1=Minor	297602	Windshield
1=Minor	Facial skin abrasion	Right panel
1=Minor	Facial skin contusion	Right panel
1=Minor	Facial skin contusion	Right panel
1=Minor	Upper extremity skin abrasion	Right interior
1=Minor	Upper extremity skin abrasion	Right panel
1=Minor	Thoracic skin abrasion	Right panel
1=Minor	Abdominal skin abrasion	Right panel
1=Minor	Upper extremity skin laceration, minor	Center panel
1=Minor	Leg skin abrasion	Center panel
1=Minor	Leg skin abrasion	Left apnel
3=Serious	Cerebral brain swelling, mild	Right A pillar
3=Serious	Cerebral brain swelling, mild	Right A pillar
2=Moderate	Pericardial laceration (puncture)	Right panel
3=Serious	Cerebral subarachnoid hemorrhage	Right A pillar

Occupant: 1997-11-108-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	25 -21 12
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F Y E W 4
Damage (C1-C6)	21 34 48 50 21 16
Crush (L and D)	180 -32
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	51.366354855
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Astrovan
Year	1994
Class	TRUCK
Body Type	MINIVAN
Weight	184

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	70	Height	180	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-11-108-2-1
MAIS	1=Minor
Seat Position	Front left side

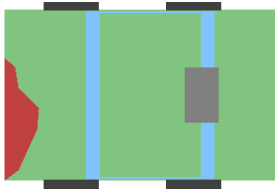
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Air bag-DR side
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Upper extremity skin laceration, minor	Mirror

Occupant: 1997-11-108-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	25 -21 12
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F Y E W 4
Damage (C1-C6)	21 34 48 50 21 16
Crush (L and D)	180 -32
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	51.366354855
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Astrovan
Year	1994
Class	TRUCK
Body Type	MINIVAN
Weight	184

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	70	Height	155	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

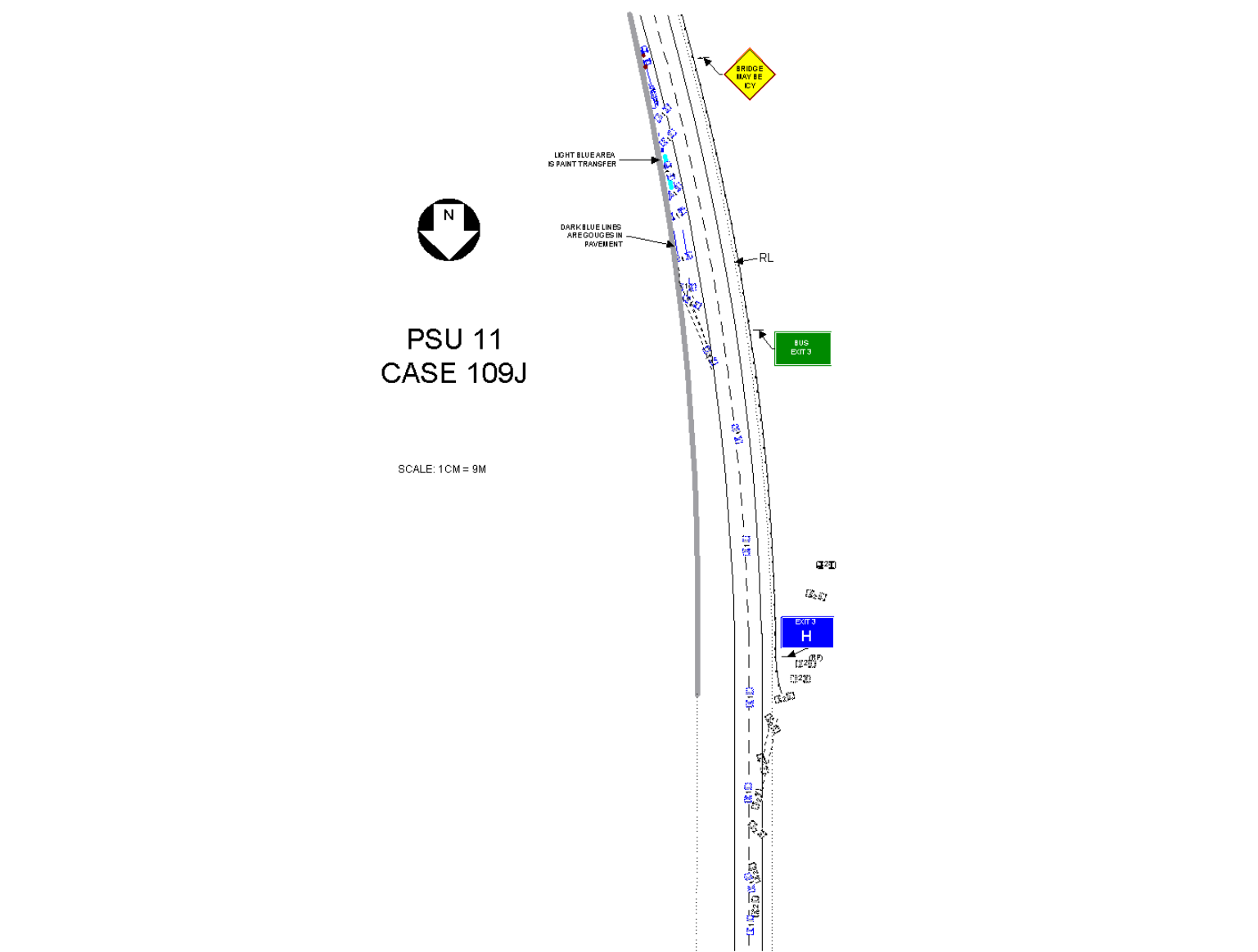
Occupant	1997-11-108-2-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin laceration NFS	Oth interior obj
1=Minor	Leg skin laceration NFS	Right panel
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Leg skin abrasion	Center panel
2=Moderate	Lumbar spine dislocation without fracture or cord injury	Seat, back

2 Case 1997-11-109

Summary:

VEHICLE ONE WAS SOUTHBOUND IN THE FIRST LANE OF A TWO-LANE, DIVIDED HIGHWAY. VEHICLE TWO WAS AHEAD OF VEHICLE ONE AND IN THE SAME LANE. VEHICLE ONE BEGAN TO CHANGE LANES TO THE RIGHT WHILE OVERTAKING VEHICLE TWO. FRONT OF VEHICLE ONE CONTACTED REAR OF VEHICLE TWO. VEHICLE ONE CONTINUED SOUTH AND CROSSED OVER THE SECOND LANE AND THE EAST SHOULDER IN A SLIGHT COUNTER-CLOCKWISE YAW. FRONT OF VEHICLE ONE CONTACTED THE CONCRETE TRAFFIC BARRIER. VEHICLE ONE ROTATED COUNTER-CLOCKWISE AND ROLLED RIGHT 6 QUARTER TURNS, SLIDING TO A STOP ON ITS ROOF. VEHICLE ONE CAME TO REST ON ITS ROOF, FACING NORTH IN THE EAST SHOULDER. AFTER IMPACT, VEHICLE TWO SPUN COUNTER-CLOCKWISE OFF THE WEST SHOULDER. LEFT OF VEHICLE TWO CONTACTED A GUARDRAIL END. VEHICLE TWO CONTINUED TO ROTATE COUNTER-CLOCKWISE AND ROLLED LEFT 6 QUARTER TURNS. VEHICLE TWO CAME TO REST ON ITS ROOF, FACING WEST DOWN AN EMBANKMENT OFF THE WEST ROADSIDE. BOTH VEHICLES WERE TOWED. THE DRIVER OF VEHICLE ONE AND BOTH OCCUPANTS OF VEHICLE TWO WERE TRANSPORTED.



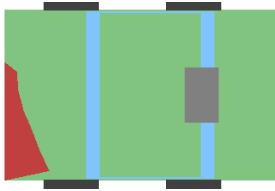
Vehicle	Body type	Make	Model	Year	OccAge	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1985	47	MALE	4=Severe
2	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	1992	55	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Pontiac	Bonneville/Catalina	1992	47	FEMALE-NOT PREG	1=Minor

Occupant: 1997-11-109-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	30

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Crash Severity

Nr. Quarter Turns	6 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 4
CDC	12 F Y E W 3
Damage (C1-C6)	65 52 40 28 21 18
Crush (L and D)	174 -37
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	ROLLOVER-OVERTRN

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	49.775347263
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DRIVER Factors

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON SHLDER-PAVED
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Age	47	Height	180	Weight	91
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					Left FRONT
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

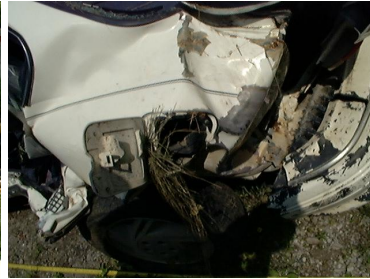
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-11-109-1-1
MAIS	4=Severe
Seat Position	Front left side

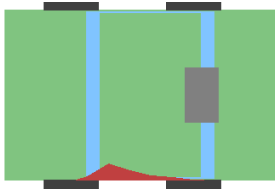
AIS Level	Injury Description	Contacts
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Steering rim
3=Serious	Lung contusion, uni-lateral	Steering rim
3=Serious	794006	Left window fram
2=Moderate	Carpus or metacarpus fracture	Left A pillar
1=Minor	Upper extremity skin laceration, minor	Left B pillar
2=Moderate	Splenic contusion NFS	Steering rim
1=Minor	Upper extremity skin contusion	Roof
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Facial skin laceration, minor	Left B pillar
1=Minor	Facial skin contusion	Left B pillar
1=Minor	Facial skin laceration NFS	Left B pillar
1=Minor	Facial skin laceration NFS	Left B pillar

Occupant: 1997-11-109-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	6 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	8 L P E W 3
Damage (C1-C6)	6 24 14 7 4 0
Crush (L and D)	188 -61
Object Contacted 1	Other BARRIER
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	49.775347263
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	152

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	55	Height	175	Weight	77
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-11-109-2-1
MAIS	3=Serious
Seat Position	Front left side

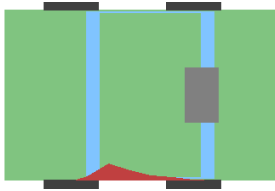
AIS Level	Injury Description	Contacts
3=Serious	544240	Steering rim
2=Moderate	Sternal fracture	Steering comb
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Abdominal skin contusion	Steering comb

Occupant: 1997-11-109-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Pontiac Bonneville/Catalina
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	152

Crash Severity

Nr. Quarter Turns	6 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	8 L P E W 3
Damage (C1-C6)	6 24 14 7 4 0
Crush (L and D)	188 -61
Object Contacted 1	Other BARRIER
Object Contacted 2	VEHICLE NO. 1

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	49.775347263
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PASSENGER Factors

Age	47	Height	165	Weight	66
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

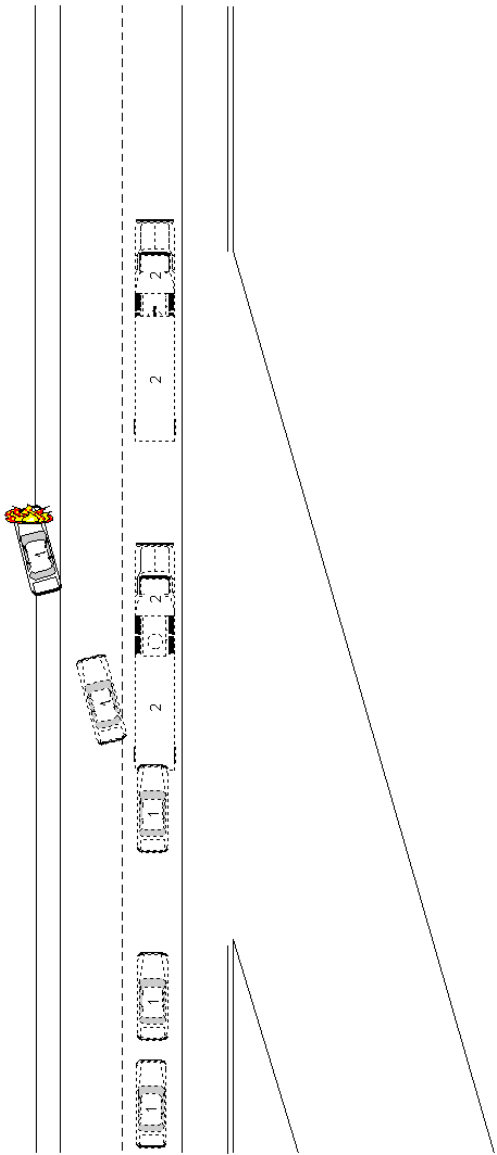
Occupant	1997-11-109-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Right B pillar
1=Minor	Facial skin contusion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Belt webb/buckle

3 Case 1997-11-142

Summary:

Vehicle one, 1988 Oldsmobile Cutlass Supream, and two, 1995 Ford Tractor Trailor, were travelling north in lane one of a two lane divided, with out positive barrier, interstate roadway. Vehicle one, front, contacted the rear of vehicle two. Vehicle one then caught fire. Vehicle one was towed. The driver of vehicle one was fatally injured.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass FWD	1988	1	30	MALE	6=Maximum

Occupant: 1997-11-142-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	46 53 62 64 49 38
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	51.366354855
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Cutlass FWD
Year	1988
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	134

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

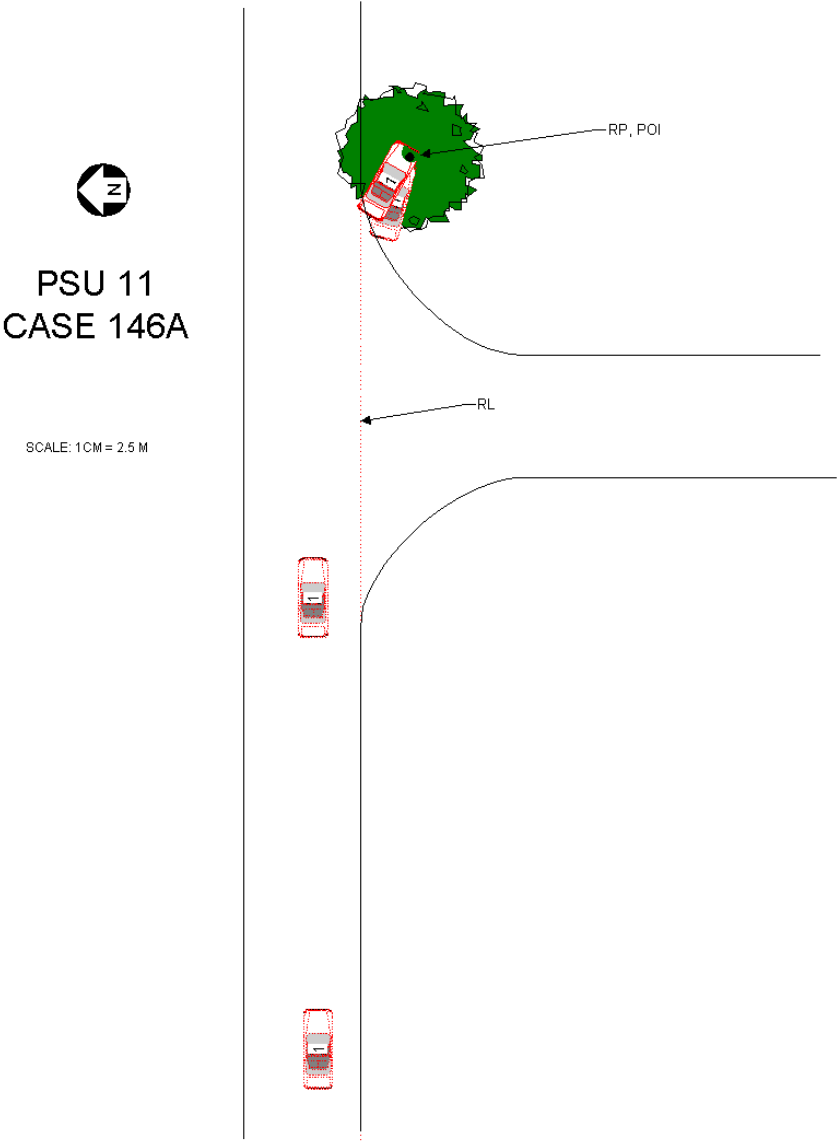
DRIVER Factors

Age	30	Height	185	Weight	145
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors		AIS Level	Injury Description	Contacts
Restrain	None used/avail			
AOPS	YES-RES DET	1=Minor	Facial skin laceration, minor	Unknown SOURCE
Airbag Deployment	Not EQUIP/AVAIL			
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL	1=Minor	Facial skin abrasion	Unknown SOURCE
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH	1=Minor	Facial skin contusion	Unknown SOURCE
Injuries		1=Minor	Facial skin contusion	Unknown SOURCE
Occupant	1997-11-142-1-1	1=Minor	Facial skin avulsion, superficial	Unknown SOURCE
MAIS	6=Maximum	1=Minor	Scalp laceration, minor	Unknown SOURCE
Seat Position	Front left side	1=Minor	Scalp abrasion	Unknown SOURCE
		1=Minor	Neck skin abrasion	Unknown SOURCE
		1=Minor	Scalp contusion	Unknown SOURCE
		1=Minor	Upper extremity skin abrasion	Unknown SOURCE
		1=Minor	Abdominal skin abrasion	Unknown SOURCE
		1=Minor	Thoracic skin abrasion	Unknown SOURCE
		2=Moderate	Sternal fracture	Unknown SOURCE
		3=Serious	Sacroilium fracture	Unknown SOURCE
		3=Serious	Symphysis pubis separation or fracture	Unknown SOURCE
		2=Moderate	Omental laceration NFS	Unknown SOURCE
		2=Moderate	Mesenteric laceration NFS	Unknown SOURCE
		2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<206=Maximum	Thoracic aortic laceration, and extramediastinal bleeding
		Unknown SOURCE		
		1=Minor	Upper extremity skin abrasion	Unknown SOURCE
		1=Minor	Upper extremity skin contusion	Unknown SOURCE
		1=Minor	Upper extremity skin laceration, minor	Unknown SOURCE
		1=Minor	Upper extremity skin contusion	Unknown SOURCE
		1=Minor	Upper extremity skin abrasion	Unknown SOURCE
		1=Minor	Leg skin abrasion	Unknown SOURCE
		1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
		1=Minor	Leg skin laceration	Unknown SOURCE

4 Case 1997-11-146

Summary:
VEHICLE ONE WAS EASTBOUND ON A RURAL, DIRT ROADWAY. THE VEHICLE DEPARTED THE RIGHT ROADSIDE. FRONT OF VEHICLE ONE CONTACTED A 50 CM TREE. THE VEHICLE ROTATED CLOCKWISE SLIGHTLY AND CAME TO REST AGAINST THE TREE. THE VEHICLE THEN CAUGHT FIRE AND WAS SEVERLY CONSUMED BY THE FIRE. THE VEHICLE WAS TOWED. THE DRIVER WAS FATALLY INJURED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	CONVERTIBLE	Pontiac	J-2000	1996	1	18	FEMALE-NOT PREG	6=Maximum

Occupant: 1997-11-146-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	DIRT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	13

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	53 -47 26
Est. δV with sequence number	DELTA V CODED 1
CDC	71 F D E W 4
Damage (C1-C6)	4 41 83 89 86 74
Crush (L and D)	135 18
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	51.366354855
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Pontiac J-2000
Year	1996
Class	PASSENGER CAR
Body Type	CONVERTIBLE
Weight	129

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	168	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

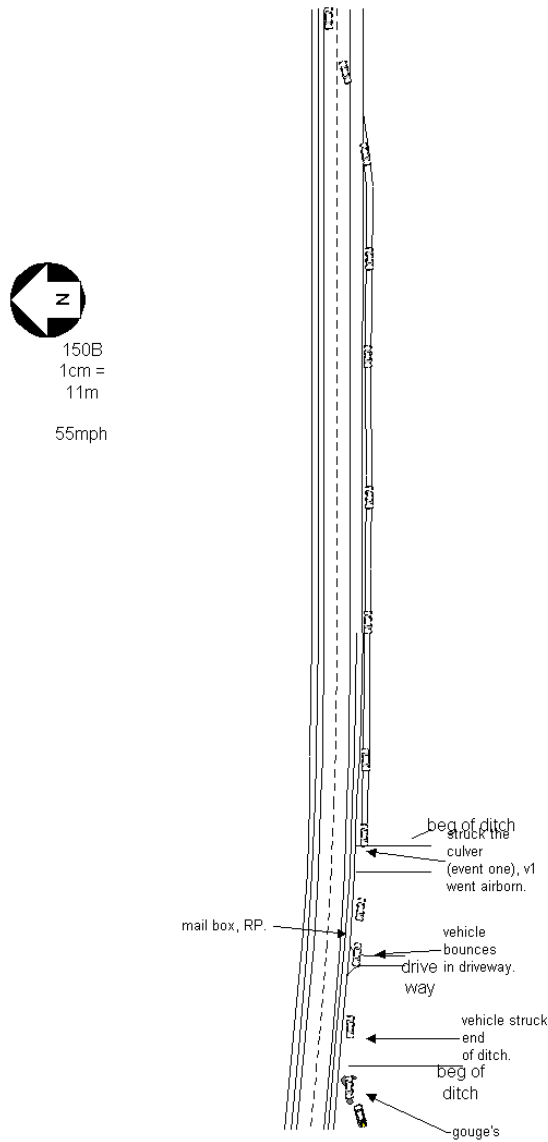
Occupant	1997-11-146-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >903=Serious	Inhalation injury, minor (CO level<20 mg

5 Case 1997-11-150

Summary:

Vehicle one, 1989 Cadillac Fleetwood, was travelling west on a two lane heavily travelled rural roadway. Vehicle one left the roadway to the left, travelling into a ditch for approximately 200 meters. Vehicle one then struck a culvert with its front. Vehicle one went airborne, coming down and bouncing, then struck a second ditch with its front. At final rest vehicle one caught on fire. The driver of vehicle one was fatally injured, (although, this may be due to a previous medical condition). The vehicle was towed.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1989	1	61	MALE	4=Severe

Occupant: 1997-11-150-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -18 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D L W 1
Damage (C1-C6)	18 13 12 8 2 0
Crush (L and D)	156 0
Object Contacted 1	DITCH/CULVERT
Object Contacted 2	DITCH/CULVERT

NASS Weighting Factor

Weighting factor	51.366354855
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	161

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	61	Height	183	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

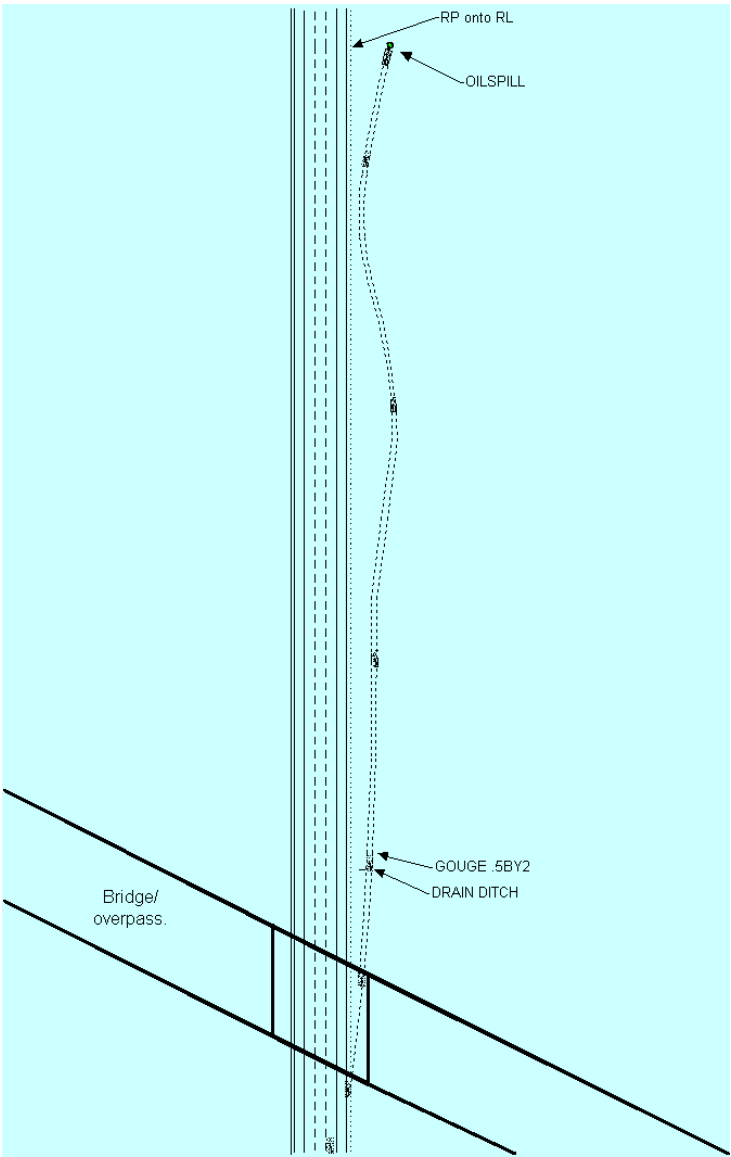
Occupant	1997-11-150-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Flail chest, with lung contusion	Steering comb
2=Moderate	Lumbar fracture of vertebral body NFS, without cord injury	Unknown SOURCE
1=Minor	Mandible fracture NFS	Steering rim
3=Serious	Cerebral subarachnoid hemorrhage	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim
4=Severe	Unconscious on admission, moves appropriately only to pain	Steering rim

6 Case 1997-11-168

Summary:

Vehicle one was travelling east on a three lane, heavily travelled interstate roadway. Vehicle one left the roadway to the right and struck a tree with its front. Vehicle one subsequently caught fire, in the engine compartment. The driver of vehicle one was transported and released. Vehicle one was towed.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Buick	Regal	1991	1	30	MALE	1=Minor

Occupant: 1997-11-168-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 -38 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F C E N 3
Damage (C1-C6)	0 17 78 67 14 2
Crush (L and D)	160 -2
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	46.839413318
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Buick Regal
Year	1991
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	152

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	30	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

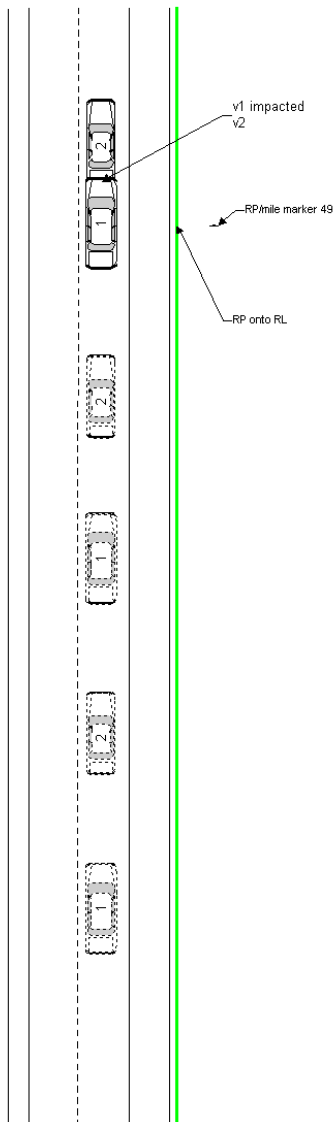
Occupant	1997-11-168-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Tongue laceration, superficial	Unknown SOURCE
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin abrasion	Foot controls

7 Case 1997-11-22

Summary:

Vehicle two was travelling north on an interstate highway in lane one. Vehicle two stopped for a traffic back up. Vehicle one was travelling north on the same roadway, in the same lane. Vehicle one, front contacted the rear of vehicle two. Vehicle one and two were both towed. All occupants of both vehicles were transported to the hospital.



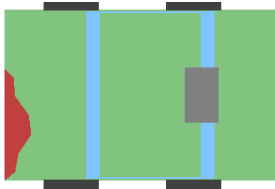
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1988	28	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Plymouth	Neon	1991	40	FEMALE-NOT PREG	2=Moderate
2	4-DR SEDAN/HDTOP	Plymouth	Neon	1992	22	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Plymouth	Neon	1993	2	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Plymouth	Neon	1994	1	FEMALE-NOT PREG	2=Moderate

Occupant: 1997-11-22-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	156

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -27 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	15 20 39 35 16 13
Crush (L and D)	164 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	51.396888234
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	28	Height	185	Weight	91
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-11-22-1-1
MAIS	1=Minor
Seat Position	Front left side

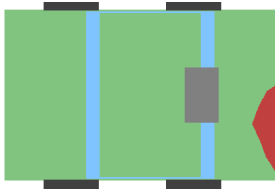
AIS Level	Injury Description	Contacts
1=Minor	Teeth avulsion	Steering rim
1=Minor	Teeth dislocated or loosened	Steering rim
1=Minor	Teeth fracture	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Thoracic skin contusion	Unknown SOURCE

Occupant: 1997-11-22-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	33 33 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 3
Damage (C1-C6)	1 16 25 36 27 14
Crush (L and D)	142 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	51.396888234
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Plymouth Neon
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	40	Height	173	Weight	82
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-11-22-2-1
MAIS	2=Moderate
Seat Position	Front left side

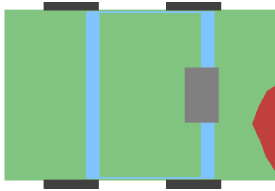
AIS Level	Injury Description	Contacts
2=Moderate	Kidney contusion (hematoma) NFS	Seat, back
1=Minor	297402	Sterring hub
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Leg skin contusion (hematoma)	Left apnel

Occupant: 1997-11-22-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Plymouth Neon
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	33 33 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 3
Damage (C1-C6)	1 16 25 36 27 14
Crush (L and D)	142 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	51.396888234
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	22	Height	165	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-11-22-2-2
MAIS	3=Serious
Seat Position	Front right side

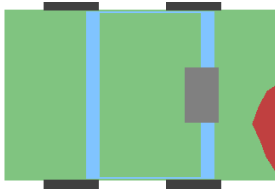
AIS Level	Injury Description	Contacts
3=Serious	Cerebral contusion, single, small (<30ccs)	Windshield
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Seat, back
1=Minor	Leg skin abrasion	Left apnel
1=Minor	297402	Windshield

Occupant: 1997-11-22-2-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Plymouth Neon
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	33 33 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 3
Damage (C1-C6)	1 16 25 36 27 14
Crush (L and D)	142 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	51.396888234
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	2	Height	61	Weight	16
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-11-22-2-3
MAIS	3=Serious
Seat Position	Second right

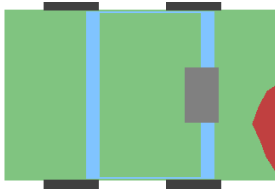
AIS Level	Injury Description	Contacts
3=Serious	Cerebral contusion, single, small (<30ccs)	Seat, back
2=Moderate	Lethargic on admission, never unconscious	Seat, back
2=Moderate	Splenic laceration NFS	Seat, back
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate)	Kidney contusion, minor (subcapsular, nonexpanding)
Seat, back		
2=Moderate	Tibial shaft fracture	Seat, back
2=Moderate	Fibular head, neck, or shaft fracture	Seat, back

Occupant: 1997-11-22-2-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	33 33 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 3
Damage (C1-C6)	1 16 25 36 27 14
Crush (L and D)	142 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	51.396888234
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Plymouth Neon
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	1	Height	61	Weight	9
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

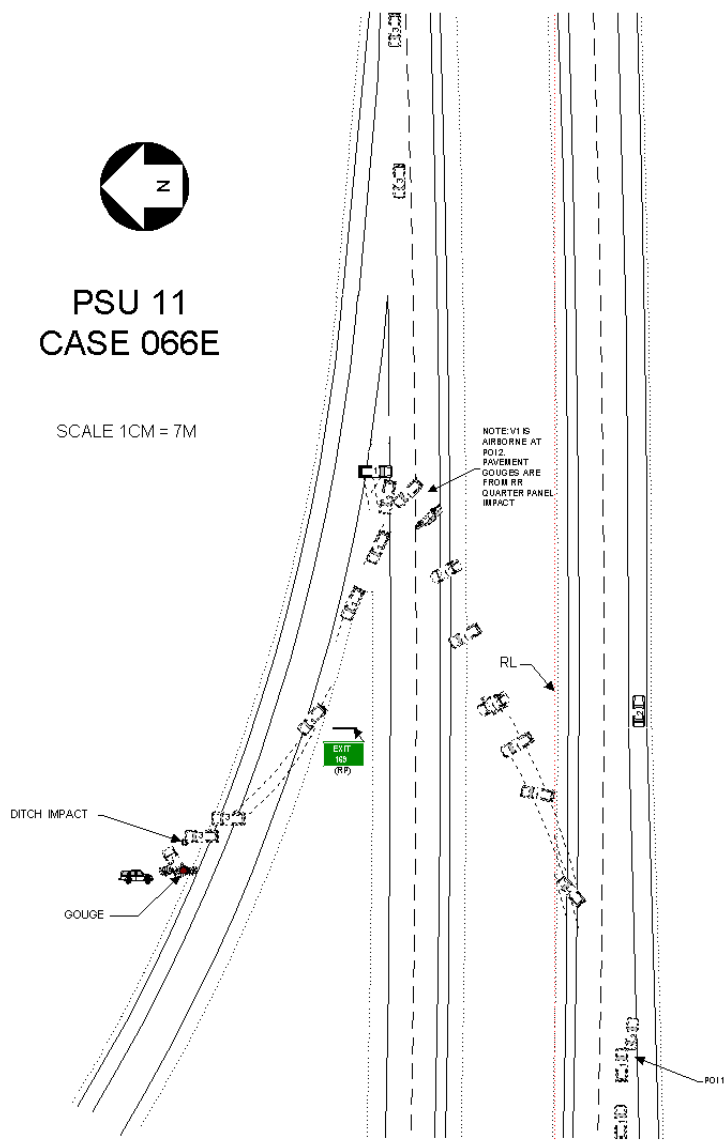
Occupant	1997-11-22-2-4
MAIS	2=Moderate
Seat Position	Second left

AIS Level	Injury Description	Contacts
2=Moderate	Femoral shaft fracture age <12 years	Seat, back
1=Minor	Scalp contusion	Seat, back
1=Minor	Facial skin abrasion	Seat, back

8 Case 1997-11-66

Summary:

VEHICLE ONE WAS EASTBOUND IN THE FIRST LANE OF A TWO-LANE, DIVIDED (WITH GRASSY MEDIAN) INTERSTATE. VEHICLE TWO WAS IN THE SAME LANE AHEAD OF VEHICLE ONE. VEHICLE THREE WAS WESTBOUND IN THE FIRST LANE OF THE SAME INTERSTATE FURTHER EAST OF V1 AND V2. VEHICLE TWO BEGAN TO MERGE ONTO THE RIGHT SHOULDER WHEN FRONT OF VEHICLE ONE CONTACTED BACK OF VEHICLE TWO. VEHICLE TWO CONTINUED TO A CONTROLLED STOP ON THE RIGHT SHOULDER. VEHICLE ONE WENT INTO A COUNTER-CLOCKWISE YAW AND ENTERED THE GRASSY MEDIAN. WHILE FACING NORTHWEST, VEHICLE ONE ROLLED RIGHT 4 QUARTER TURNS IN THE MEDIAN. WHILE STILL IN A RIGHT ROLL, VEHICLE ONE CROSSED THE WESTBOUND LANES OF THE INTERSTATE. VEHICLE THREE ACCELERATED AND VEERED RIGHT, WHEN RIGHT OF VEHICLE ONE CONTACTED LEFT OF VEHICLE THREE. VEHICLE ONE WAS AIRBORN AT THE POINT OF IMPACT. VEHICLE ONE ROTATED COUNTER-CLOCKWISE ABOUT 180 DEGREES AND CAME TO REST ON ITS WHEELS FACING SOUTH BETWEEN THE 1ST W/B LANE AND THE EXIT RAMP. UPON IMPACT, VEHICLE THREE WENT INTO A CLOCKWISE YAW, ENTERED THE GORE, CROSSED OVER THE EXIT RAMP, AND DEPARTED THE RIGHT RAMP SIDE. FRONT OF VEHICLE THREE CONTACTED THE DITCH. WHILE ROTATING CLOCKWISE, VEHICLE THREE ROLLED LEFT 5 QUARTER TRUNS COMING TO REST ON ITS LEFT SIDE, FACING SOUTH. VEHCIEL ONE AND THREE WERE TOWED. DRIVER'S OF VEHICLES ONE AND THREE WERE TRANSPORTED.



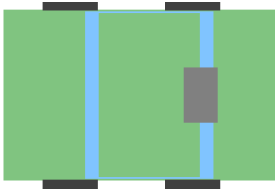
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Subaru	Legacy	1996	1	27	FEMALE-NOT PREG	3=Serious
3	COMPACT UTILITY	Ford	Bronco II	1991	1	47	MALE	1=Minor

Occupant: 1997-11-66-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Subaru Legacy
Year	1996
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	132

Crash Severity

Nr. Quarter Turns	8 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 2
CDC	60 T D D O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	VEHICLE NO. 3

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-LOSPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	187.36480859
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DRIVER Factors

Age	27	Height	173	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-11-66-1-1
MAIS	3=Serious
Seat Position	Front left side

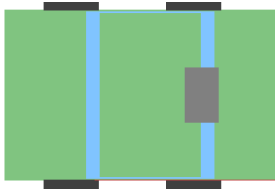
AIS Level	Injury Description	Contacts
3=Serious	Humeral fracture, open/displaced/comminuted	Roof left rail
3=Serious	Humeral fracture, open/displaced/comminuted	Roof left rail
2=Moderate	Ulnar fracture, closed	Roof left rail
2=Moderate	Orbit fracture NFS	Roof
2=Moderate	Awake on admission, amnesia	Roof
1=Minor	297402	Roof
1=Minor	Facial skin laceration, minor	Roof
1=Minor	Scalp abrasion	Roof
1=Minor	Upper extremity skin abrasion	Roof
1=Minor	Upper extremity skin contusion	Roof left rail
1=Minor	Upper extremity skin abrasion	Roof

Occupant: 1997-11-66-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Cap
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	5 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 3
CDC	0 L Z A S 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	187.36480859
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	DITCH/CULVERT
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Ford Bronco II
Year	1991
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	182

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	ACC+STEER RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	47	Height	178	Weight	70
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

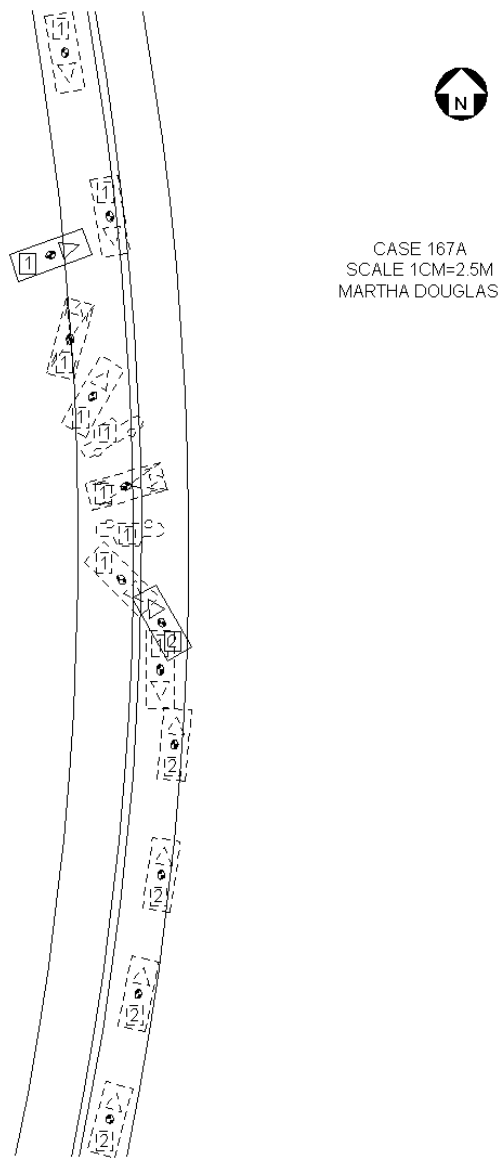
Occupant	1997-11-66-3-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE

9 Case 1997-12-167

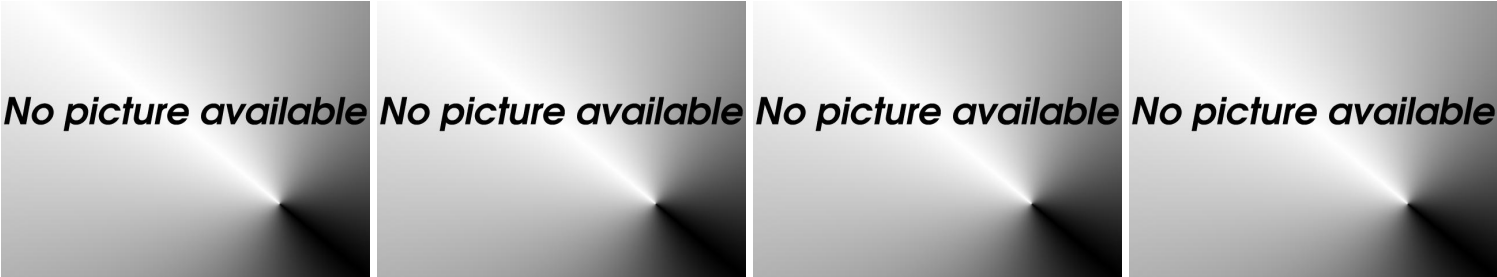
Summary:

VEHICLE 1 WAS HEADED SOUTH WHILE VEHICLE 2 WAS HEADED NORTH. AS VEHICLE 1 CROSSED THE CENTER LINE, VEHICLE 2 TRIED UNSUCCESSFULLY TO AVOID THE CRASH. THE 2 VEHICLES MET HEAD ON IN THE NORTH BOUND LANE KILLING THE DRIVER OF VEHICLE 1 AND SERIOUSLY INJURING THE PASSENGER AS WELL AS THE DRIVER OF VEHICLE 2. BOTH CARS WERE TOWED AND ALL THREE OCCUPANTS WERE TRANSPORTED. ALSO NOTE: A SMALL ENGINE COMPARTMENT FIRE WAS DETECTED AND PUT OUT QUICKLY RESULTING IN NO ADDITIONAL INJURIES.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Chevrolet	S-10	1997	1	22	MALE	2=Moderate
1	COMPACT PICKUP	Chevrolet	S-10	1997	2	26	MALE	5=Critical
2	3DR/2DR HATCHBAK	Plymouth	Sundance	1992	1	22	FEMALE-NOT PREG	3=Serious

Occupant: 1997-12-167-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	35 -35 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 4
Damage (C1-C6)	63 33 20 3 17 36
Crush (L and D)	148 -30
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	31.341591072
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet S-10
Year	1997
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	137

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	22	Height	170	Weight	64
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Left FRONT		
Entrapment			Not ENTRAPPED		

Restraint Factors

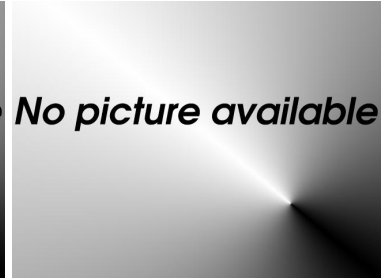
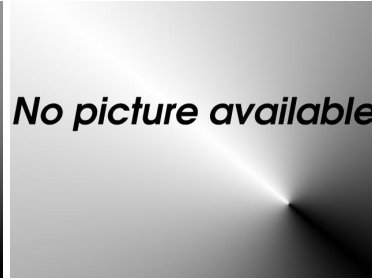
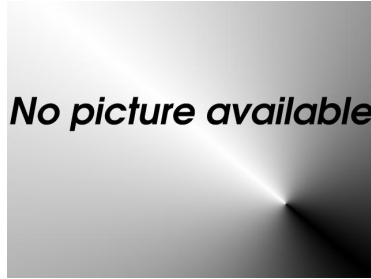
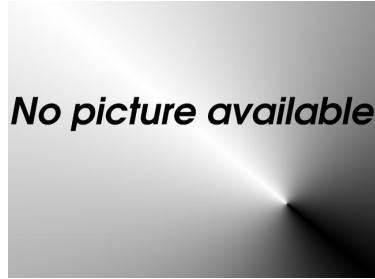
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-167-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	851605	Left apnel
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Abdominal skin abrasion	Left interior
1=Minor	Thoracic skin contusion	Steering rim
1=Minor	Neck skin contusion (hematoma)	Air bag-DR side
1=Minor	Facial skin laceration NFS	Steering rim
1=Minor	Tongue laceration NFS	Steering rim
1=Minor	Scalp abrasion	Left A pillar
1=Minor	Scalp laceration, NFS	Left A pillar

Occupant: 1997-12-167-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	35 -35 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 4
Damage (C1-C6)	63 33 20 3 17 36
Crush (L and D)	148 -30
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	31.341591072
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Chevrolet S-10
Year	1997
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	137

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	26	Height	180	Weight	82
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

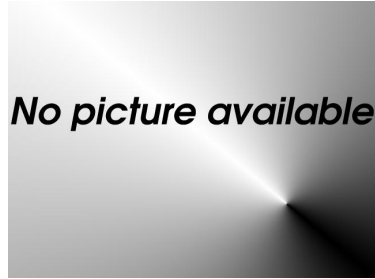
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

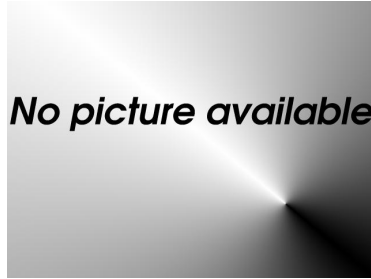
Occupant	1997-12-167-1-2
MAIS	5=Critical
Seat Position	Front right side

AIS Level	Injury Description	Contacts
5=Critical	Unconsciousness >24 hours	Roof
4=Severe	Cerebral intraventricular hemorrhage	Roof
5=Critical	Intracerebral hematoma, small, bilateral	Roof
4=Severe	Cerebral subdural hematoma, NFS	Roof
5=Critical	Brainstem compression (includes herniation)	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
3=Serious	Thoracic cavity injury NFS, with hemo-/pneumothorax	Center panel
2=Moderate	Knee laceration into joint	Right panel
1=Minor	Leg skin abrasion	Seat, back
1=Minor	Facial skin abrasion	Mirror
1=Minor	Scalp abrasion	Mirror
1=Minor	Scalp contusion	Mirror
1=Minor	Scalp laceration, minor	Roof
5=Critical	Brain stem infarction	Roof

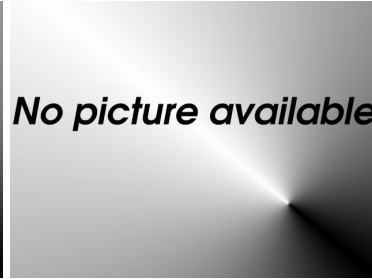
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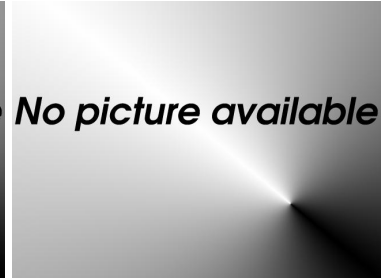
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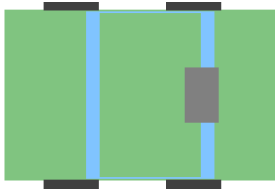
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Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	31.341591072
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Plymouth Sundance
Year	1992
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	119

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	22	Height	163	Weight	54
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

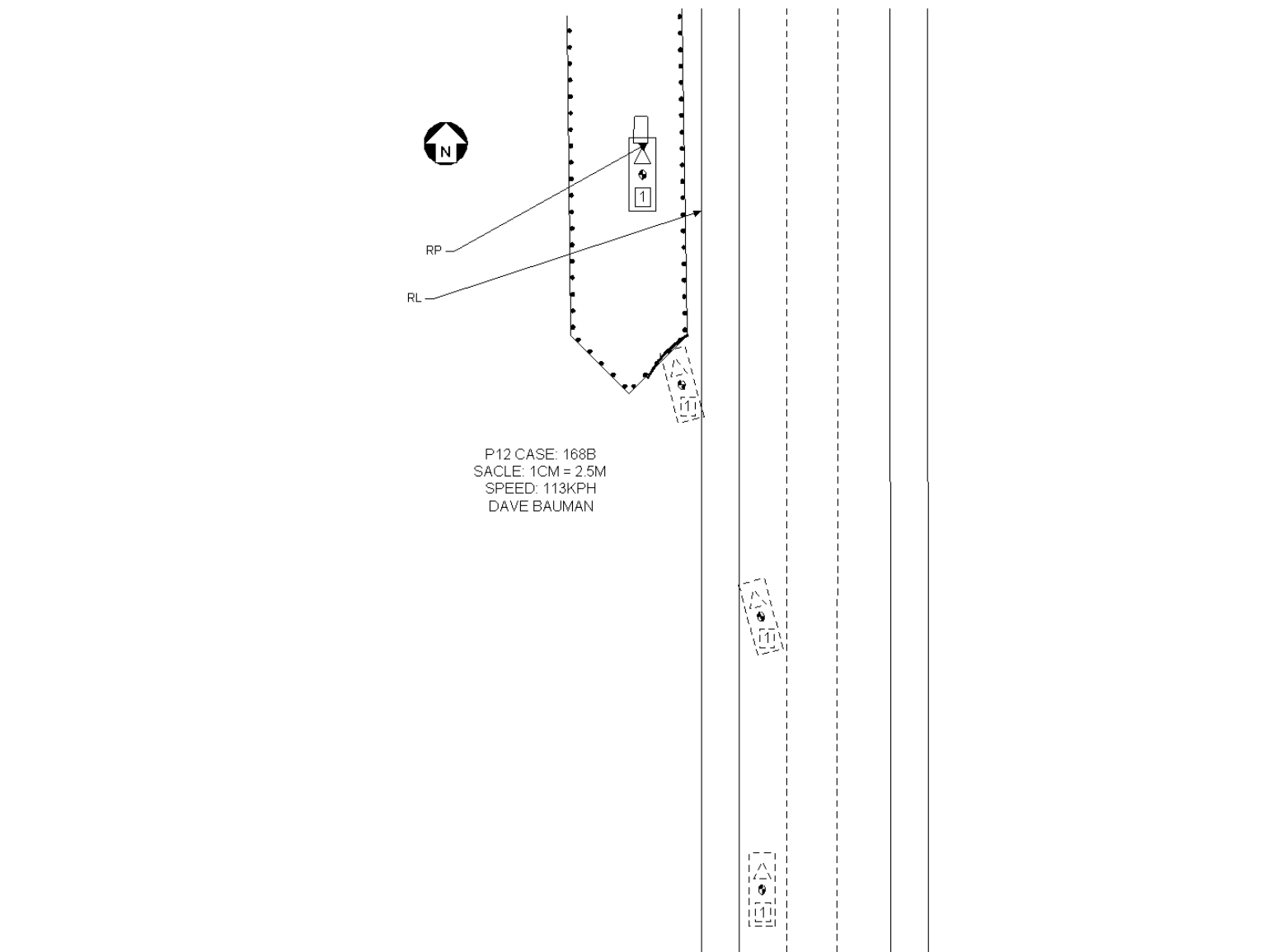
Injuries

Occupant	1997-12-167-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Unknown SOURCE
2=Moderate	Metatarsal or tarsal fracture	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Abdominal skin contusion	Air bag-DR side

10 Case 1997-12-168

Summary:
VEHICLE ONE WAS HEADING NORTH ON A THREE LANE ONE WAY EXPRESSWAY. THE VEHICLE LEFT THE ROAD ON THE LEFT SIDE STRICKING A GUARDRAIL. THE VEHICLE RAN OVER THE GUARDRAIL AND STRUCK A CEMENT PILLAR. THE VEHICLE WAS TOWED DUE TO DAMAGE. THE ONLY OCCUPANT OF THE VEHICLE WAS KILLED.



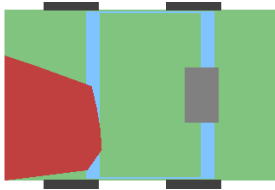
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1990	1	33	MALE	7=Unk. sev.

Occupant: 1997-12-168-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	9

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	92 F D E W 4
Damage (C1-C6)	122 143 140 135 128 45
Crush (L and D)	184 -30
Object Contacted 1	Oth FIXED OBJECT
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	31.341591072
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1990
Class	TRUCK
Body Type	LARGE PICKUP
Weight	195

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	REMAIN OFF ROAD

DRIVER Factors

Age	33	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

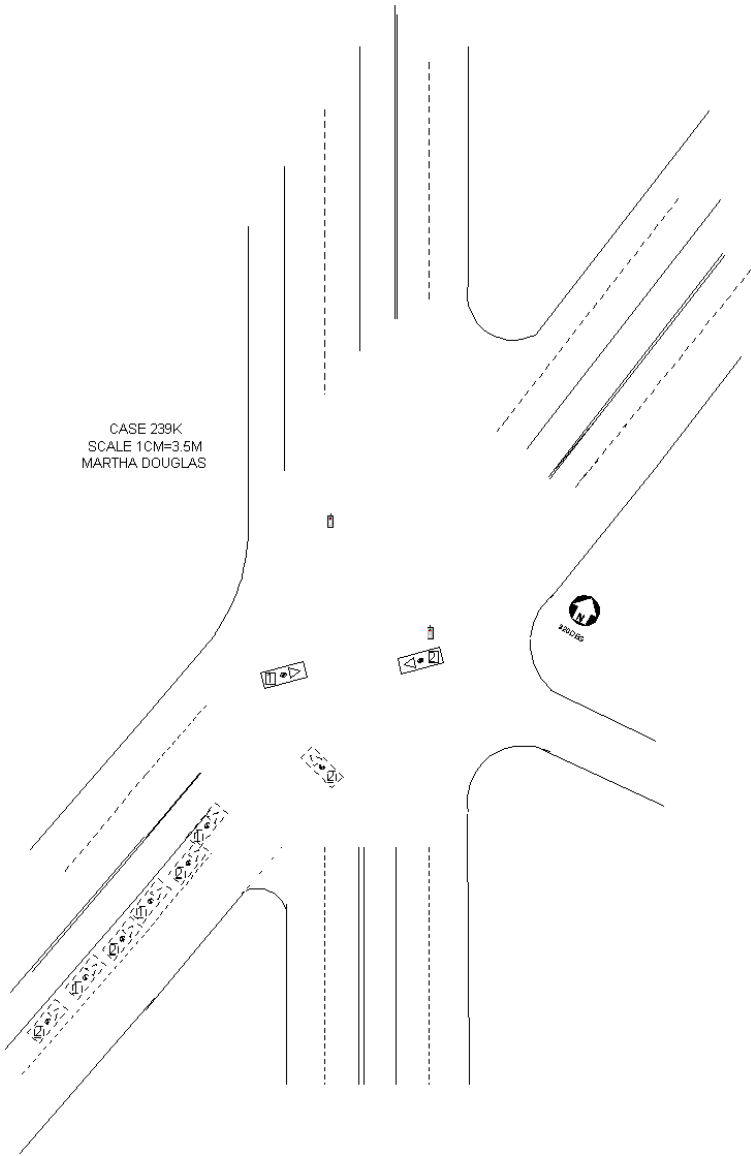
Injuries

Occupant	1997-12-168-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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11 Case 1997-12-239

Summary:
BOTH VEHICLES 2 AND 2 WERE HEADED NORTH. AS THE TWO VEHICLES WERE APPROACHING THE INTERSECTION THE FRONT OF VEHICLE 2 CONTACTED THE REAR OF VEHICLE 1. BOTH DRIVERS WERE TRANSPORTED TO MEDICAL ATTENTION AND BOTH VEHICLES WERE TOWED.



Vehicle	Body type	Make	Model	Year of Occ	Age of Occ	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Saab	99/99E/900	1996	24	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Buick	Somerset/Skylark(86+)	1989	34	MALE	2=Moderate

Occupant: 1997-12-239-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	66 66 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	26 B D E W 7
Damage (C1-C6)	53 100 139 141 141 135
Crush (L and D)	138 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	30.289629388
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Saab 99/99E/900
Year	1996
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	133

Pre-Crash Driver Data

Accident Type	29
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	DECELERATING
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	24	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

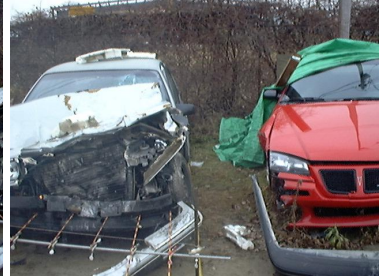
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-239-1-1
MAIS	1=Minor
Seat Position	Front left side

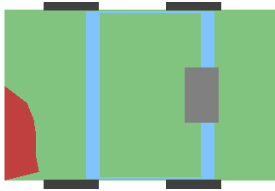
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Sunvisor
1=Minor	Awake on admission, never unconscious	Head restraint
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

Occupant: 1997-12-239-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	32

Vehicle Factors

Make-Model	Buick Somerset/Skylark(86+)
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	120

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	72 -72 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	51 45 47 43 33 0
Crush (L and D)	150 -40
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	28
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	30.289629388
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	34	Height	183	Weight	89
Gender					MALE
Ejection					PARTIAL EJECTION
Ejection Area					WINDSHIELD
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

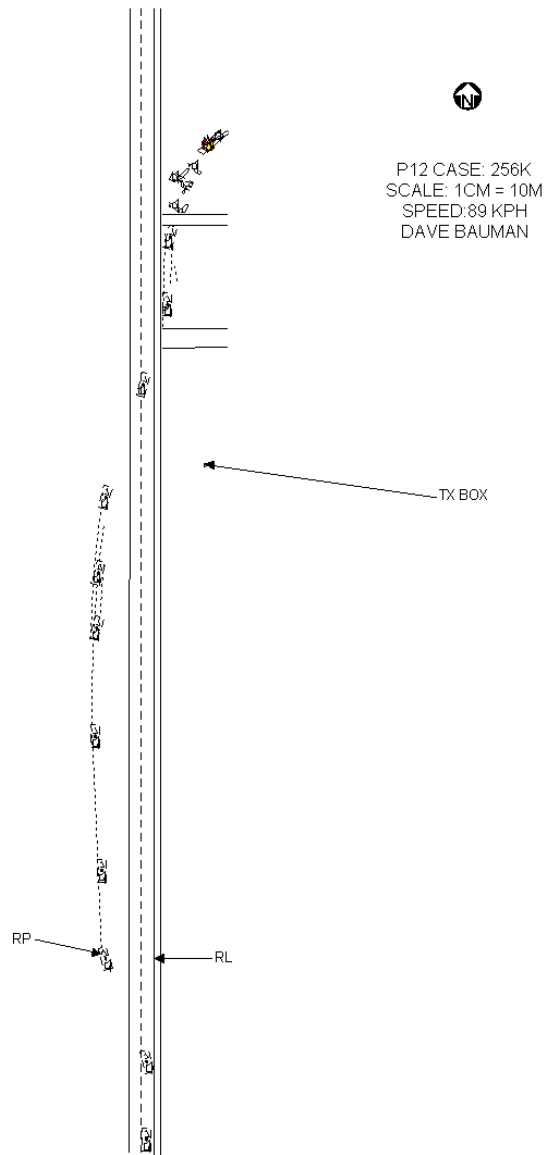
Occupant	1997-12-239-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, prior unconscious, length NFS	Windshield
2=Moderate	Lumbar fracture of vertebral body <201=Minor	Facial skin laceration, minor
Windshield 1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Scalp laceration, NFS	Unknown SOURCE

12 Case 1997-12-256

Summary:

VEHICLE ONE WAS HEADING NORTH ON A TWO WAY TWO LANE ROAD. THE VEHICLE LEFT THE ROAD ON THE LEFT SIDE. THE DRIVER OVER CORRECTED AND CROSSED THE ROAD ON THE RIGHT SIDE AND LEFT THE ROAD AGAIN. THE VEHICLE ROLLED OVER EJECTING THE OCCUPANT. THE VEHICLE THEN CAUGHT ON FIRE. THE VEHICLE WAS TOWED DUE TO DAMAGE. THE OCCUPANT WAS TRANSPORTED FOR MEDICAL TREATMENT.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	UTILITY STAWAGON	Chevrolet	Suburban	1987	1	20	MALE	3=Serious

Occupant: 1997-12-256-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	6 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	MODERATE 2
Damage (C1-C6)	0 T Y D O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN
	DITCH/CULVERT

NASS Weighting Factor

Weighting factor	37.522792886
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	DITCH/CULVERT
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	2

Vehicle Factors

Make-Model	Chevrolet Suburban
Year	1987
Class	PASSENGER CAR
Body Type	UTILITY STAWAGON
Weight	194

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	20	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

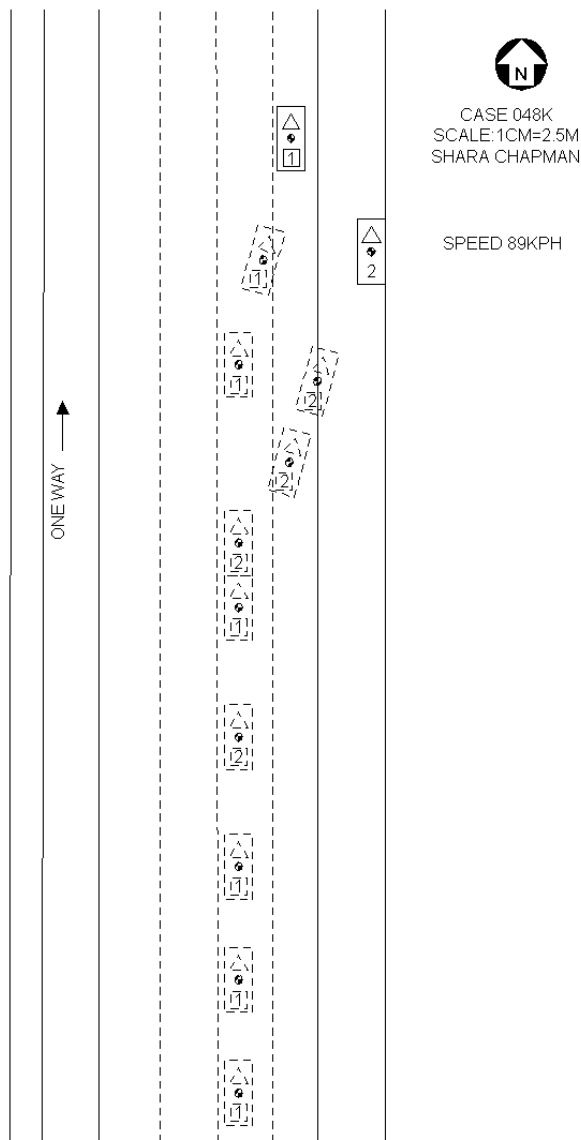
Occupant	1997-12-256-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Lung contusion, unilateral	Ground
1=Minor	Scalp abrasion	Ground
1=Minor	Scalp contusion	Ground
1=Minor	Leg skin abrasion	Ground
3=Serious	Unconscious on admission, length NFS	Ground

13 Case 1997-12-48

Summary:

VEHICLES 1 AND 2 WERE NORTHBOUND ON AN EXPRESSWAY. VEHICLE 2 WAS DRIVING APPROXIMATELY 45MPH DUE TO HEAVY MERGE TRAFFIC AND VEHICLE 1'S FRONT CONTACTED THE REAR OF VEHICLE 2. VEHICLE 2 SLOWLY DROVE TO THE SHOULDER OF THE ROAD WITH A PUNCTURED GAS TANK. VEHICLE 1 CONTINUED FARTHER AND GRADUALLY STOPPED THE VEHICLE. BOTH VEHICLES WERE TOWED DUE TO DAMAGE AND MEDICAL ATTENTION WAS SOUGHT FOR INJURIES SUSTAINED.



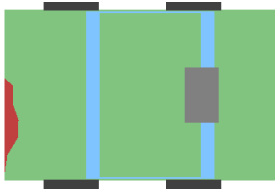
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Lumina	1990	1	56	MALE	2=Moderate
2	LARGE VAN	Dodge	B-series Van	1987	1	45	MALE	0=None

Occupant: 1997-12-48-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DAWN
Atmospheric Conditions	RAIN
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Lumina
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	145

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -28 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	0 4 19 20 12 13
Crush (L and D)	150 9
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	28
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-DECELER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	34.07314065
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	56	Height	180	Weight	91
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-48-1-1
MAIS	2=Moderate
Seat Position	Front left side

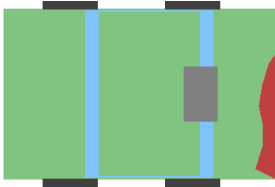
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, prior unconscious, length NFS	Steering rim
2=Moderate	Facial skin laceration, major (>10 cm & into sub-Q)	Steering rim
1=Minor	Facial skin contusion	Steering rim
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Acute cervical spine strain without fracture or dislocation	Steering rim
1=Minor	Shoulder sprain (glenohumeral joint)	Steering rim
1=Minor	Upper extremity skin laceration, minor	Windshield
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin contusion (hematoma)	Transmiss lever

Occupant: 1997-12-48-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	22 22 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 2
Damage (C1-C6)	30 19 18 24 19 9
Crush (L and D)	186 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.07314065
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DAWN
Atmospheric Conditions	RAIN
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1987
Class	TRUCK
Body Type	LARGE VAN
Weight	194

Pre-Crash Driver Data

Accident Type	29
Pre-event Movement	DECELER IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	45	Height	180	Weight	100
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

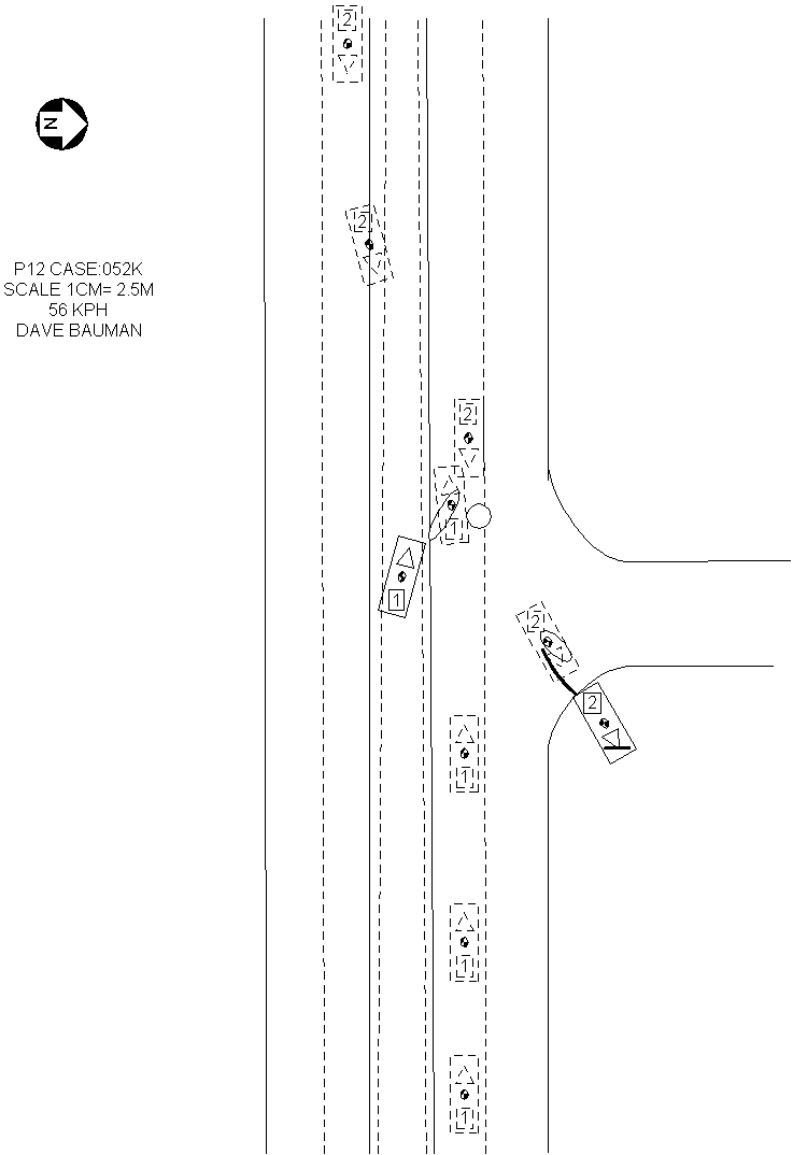
Occupant	1997-12-48-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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14 Case 1997-12-52

Summary:

VEHICLE ONE WAS WEST BOUND ON A FIVE LANE TWO WAY ROAD WITHOUT POSITIVE BARRIER. VEHICLE TWO WAS HEADING EAST DOWN THE SAME ROADWAY. VEHICLE TWO CROSSED THE CENTER BARRIER AND HIT VEHICLE ONE HEAD ON. VEHICLE TWO THEN CONTINUED ON HITTING A CURB AND ENTER ONLY SIGN BEFORE COMING TO REST. BOTH VEHICLES WERE TOWED DUE TO DAMAGE AND ALL OCCUPANTS INVOLVED WERE TRANSPORTED FOR MEDICAL ATTENTION.



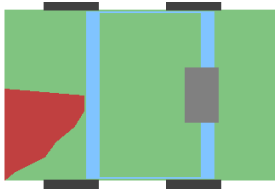
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Chevrolet	Baretta/Corsica	1989	19	FEMALE-NOT PREG	3=Serious
2	4-DR SEDAN/HDTOP	Ford	Taurus	1989	19	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Ford	Taurus	1989	18	MALE	1=Minor

Occupant: 1997-12-52-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Baretta/Corsica
Year	1989
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	119

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	51 -39 33
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 4
Damage (C1-C6)	14 59 75 103 117 117
Crush (L and D)	136 12
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	34.07314065
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DRIVER Factors

Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	19	Height	168	Weight	75
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-52-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Ulnar fracture, open/displaced/comminuted	Left apnel
2=Moderate	Awake on admission, prior unconscious, length NFS	Sunvisor
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE
1=Minor	Facial skin contusion	Sunvisor
1=Minor	Facial skin abrasion	Sunvisor
1=Minor	Abdominal skin abrasion	Steering rim
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Upper extremity skin contusion	Left apnel

Occupant: 1997-12-52-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	44 -41 -15
Est. δV with sequence number	DELTA V CODED 1
CDC	21 F D E W 3
Damage (C1-C6)	2 7 13 23 37 69
Crush (L and D)	136 10
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	BREAKAWAY POLE

NASS Weighting Factor

Weighting factor	34.07314065
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Taurus
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	132

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	19	Height	190	Weight	84
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-52-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin abrasion	Sterring hub
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Facial skin contusion	Mirror

Occupant: 1997-12-52-2-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	44 -41 -15
Est. δV with sequence number	DELTA V CODED 1
CDC	21 F D E W 3
Damage (C1-C6)	2 7 13 23 37 69
Crush (L and D)	136 10
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	BREAKAWAY POLE

NASS Weighting Factor

Weighting factor	34.07314065
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Taurus
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	132

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	18	Height	188	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

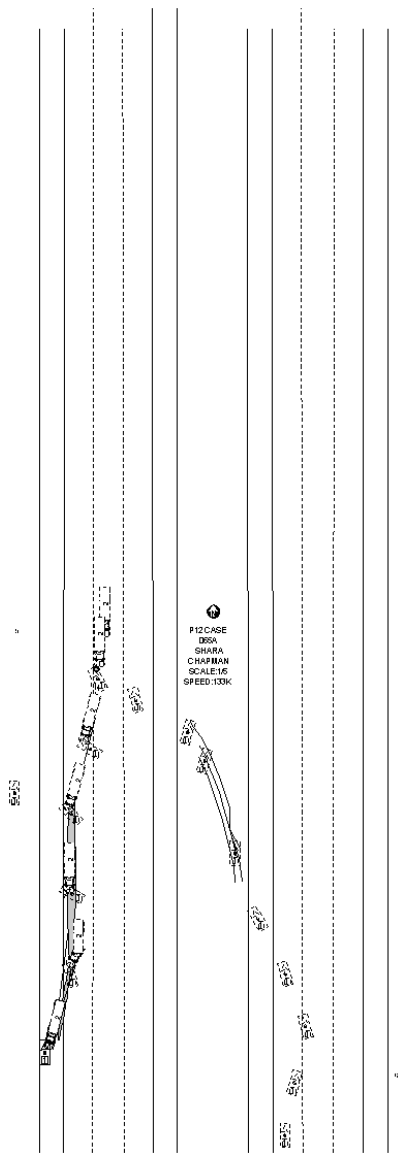
Occupant	1997-12-52-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Awake on admission, never unconscious	Right panel
1=Minor	Facial skin laceration, minor	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel

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Summary:

VEHICLE 1 WAS NORTHBOUND ON A MULTILANE HIGHWAY CHANGING LANES FROM THE CENTER LANE INTO THE HIGH SPEED LANE LOSING CONTROL, CROSSING OVER THE GRASS MEDIAN, THE VEHICLE ENTERED THE SOUTHBOUND EXPRESSWAY INTO THE PATH OF A HEAVY TRUCK. THE FRONT OF VEHICLE 1 CONTACTED THE FRONT OF VEHICLE 2 WHICH OVERRODE THE FRONT CRUSHING THE TOP BACK INTO THE PASSENGER COMPARTMENT AREA. THE AIRBAGS DEPLOYED WITH THE RIGHT BAG BEING TORN FROM THE INSTRUMENT PANEL. BOTH OCCUPANTS WERE FATALY INJURED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Dodge	Avenger	1997	1	47	FEMALE-NOT PREG	1=Minor
1	2DR SEDAN/HT/CPE	Dodge	Avenger	1997	2	38	MALE	2=Moderate

Occupant: 1997-12-65-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	>54 KMPH 1
Damage (C1-C6)	70 F R E E 8
Crush (L and D)	30 93 0 0 0 0
Object Contacted 1	140 60
Object Contacted 2	VEHICLE NO. 2
	0

NASS Weighting Factor

Weighting factor	31.341591072
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Avenger
Year	1997
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	131

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	47	Height	163	Weight	67
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-65-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp avulsion, NFS	Unknown SOURCE
1=Minor	790800	Unknown SOURCE
1=Minor	892000	Fire in vehicle

Occupant: 1997-12-65-1-2



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	>54 KMPH 1
Damage (C1-C6)	70 F R E E 8
Crush (L and D)	30 93 0 0 0 0
Object Contacted 1	140 60
Object Contacted 2	VEHICLE NO. 2
	0

NASS Weighting Factor

Weighting factor	31.341591072
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Avenger
Year	1997
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	131

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	38	Height	183	Weight	77
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-65-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	OMV front bumper
1=Minor	Facial skin laceration	OMV front bumper
	NFS	
1=Minor	790800	OMV front bumper
2=Moderate	Pelvic fracture NFS	OMV und/carriage

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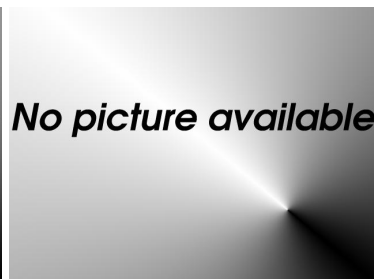
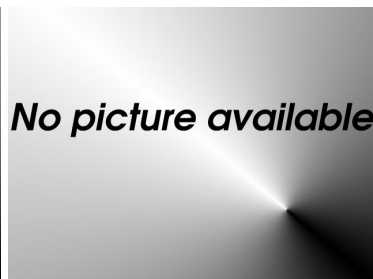
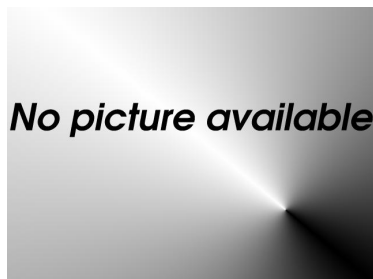
Summary:

VEHICLE ONE WAS HEADING SOUTH ON AN ENTRANCE RAMP TO A THREE LANE DIVIDED HIGHWAY WITH POSITIVE BARRIER. VEHICLES TWO AND THREE WERE HEADING SOUTH ON A THREE LANE ONE WAY EXPRESSWAY. THE FRONT OF VEHICLE ONE CONTACTED THE RIGHT REAR OF VEHICLE TWO CAUSING VEHICLE ONE TO SPIN CLOCKWISE AND STRICK THE REAR OF VEHICLE THREE. VEHICLE ONE THEN CROSSED THE EXPRESSWAY AND STRUCK A POLE BEFORE COMING TO REST. VEHICLE THREE, AFTER BEING STRUCK BY VEHICLE ONE, CONTACTED THE CONCRETE BARRIER AND STARTED TO ROLL RIGHT BEFORE COMING TO REST. ALL THREE VEHICLES WERE TOWED DUE TO DAMAGE. OCCUPANTS 1 OF VEHICLE ONE AND 2 OF VEHICLE TWO WERE TRANSPORTED FOR MEDICAL TREATMENT. ALL OCCUPANTS OF VEHICLE THREE WERE TOWED DUE TO INJURIES. OCCUPANT ONE OF VEHICLE THREE WAS EJECTED FROM THE VEHICLE.



Vehicle #	Body type	Make	Model	Year	Occ #	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Nova/Geo Prism	1992	18		FEMALE-NOT PREG	0=None
2	2DR SEDAN/HT/CPE	Cadillac	Eldorado	1992	51		FEMALE-NOT PREG	0=None
2	2DR SEDAN/HT/CPE	Cadillac	Eldorado	1992	27		FEMALE-NOT PREG	1=Minor
3	COMPACT UTILITY	GMC	Jimmy/S-15 based	1997	25		MALE	4=Severe
3	COMPACT UTILITY	GMC	Jimmy/S-15 based	1997	26		MALE	2=Moderate
3	COMPACT UTILITY	GMC	Jimmy/S-15 based	1997	26		MALE	1=Minor

Occupant: 1997-12-66-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -19 3
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	0 5 15 14 13 16
Crush (L and D)	156 10
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	34.052922194
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Nova/Geo Prism
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	110

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	183	Weight	66
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-66-1-1
MAIS	0=None
Seat Position	Front left side

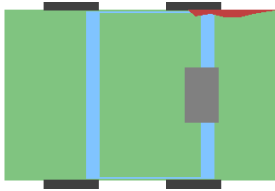
AIS Level	Injury Description	Contacts
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Occupant: 1997-12-66-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	13 6 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	4 R B E W 1
Damage (C1-C6)	8 5 9 9 5 1
Crush (L and D)	130 -204
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.052922194
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Eldorado
Year	1992
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	164

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	ENTR LTD ACC HWY
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	51	Height	165	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-66-2-1
MAIS	0=None
Seat Position	Front left side

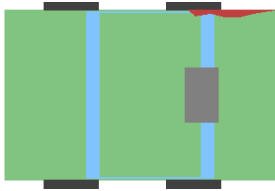
AIS Level	Injury Description	Contacts
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Occupant: 1997-12-66-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	13 6 -11
Est. δV with sequence number	DELTA V CODED 1
CDC	4 R B E W 1
Damage (C1-C6)	8 5 9 9 5 1
Crush (L and D)	130 -204
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	34.052922194
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Eldorado
Year	1992
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	164

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	ENTR LTD ACC HWY
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	27	Height	170	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

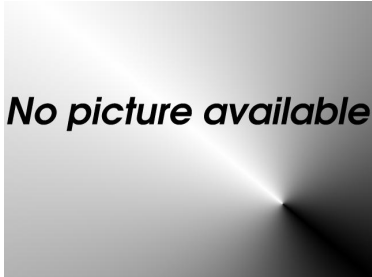
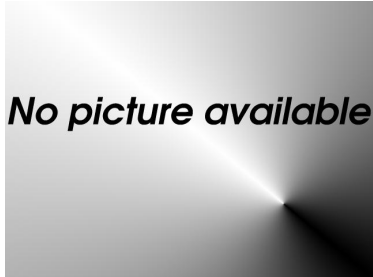
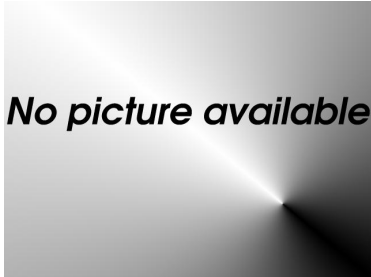
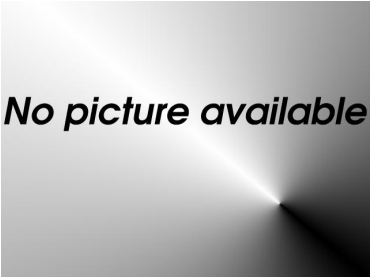
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-66-2-2
MAIS	1=Minor
Seat Position	Front right side

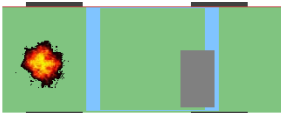
AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin contusion	Right interior
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

Occupant: 1997-12-66-3-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	10 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 4
Damage (C1-C6)	0 R D A O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTRN
	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	34.052922194
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	CONCRETE BARRIER
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	GMC Jimmy/S-15 based
Year	1997
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	183

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	25	Height	180	Weight	84
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Left FRONT		
Entrapment			Not ENTRAPPED		

Restraint Factors

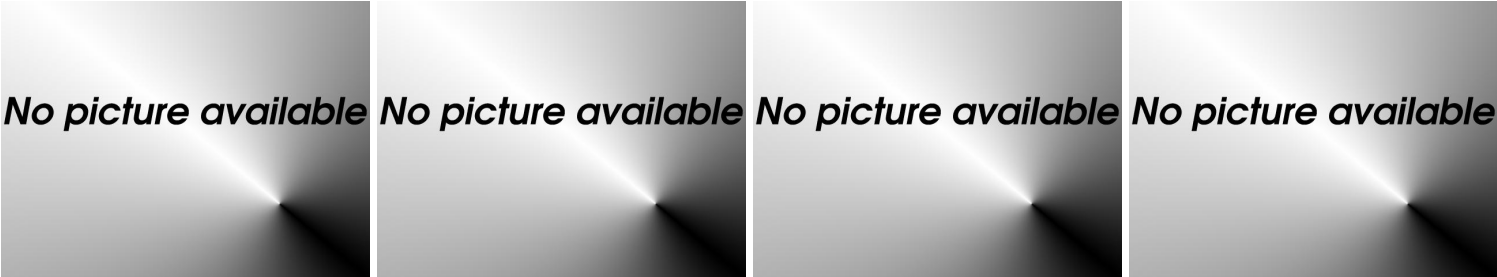
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOY-NOCOL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-66-3-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Incomplete cervical cord syndrome with dislocation	Ground
2=Moderate	Orbit fracture, closed	Ground
2=Moderate	Zygoma fracture	Ground
2=Moderate	Maxillary fracture, closed	Ground
2=Moderate	Skull fracture, vault, NFS	Ground
1=Minor	297602	Ground
1=Minor	297402	Ground
1=Minor	297402	Ground
1=Minor	Thoracic skin contusion	Ground
1=Minor	Abdominal skin contusion	Ground
3=Serious	Lethargic on admission, never unconscious & neuro deficit	Ground
1=Minor	Facial skin laceration, minor	Ground
1=Minor	Leg skin abrasion	Ground
1=Minor	Facial skin abrasion	Ground
1=Minor	Facial skin contusion	Ground
1=Minor	Scalp abrasion	Ground
1=Minor	Scalp laceration, minor	Ground
2=Moderate	Lumbar fracture of vertebral body <20	

Occupant: 1997-12-66-3-2



Fire Information

Fire Occurence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	10 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 4
Damage (C1-C6)	0 R D A O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTRN
	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	34.052922194
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	CONCRETE BARRIER
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	GMC Jimmy/S-15 based
Year	1997
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	183

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	26	Height	175	Weight	93
Gender			MALE		
Ejection			PARTIAL EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

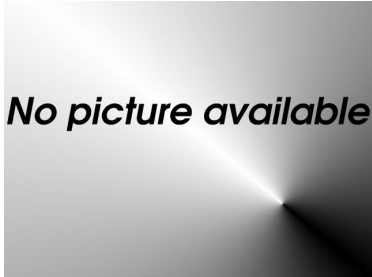
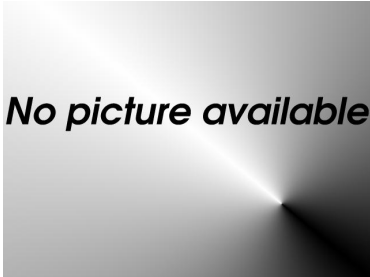
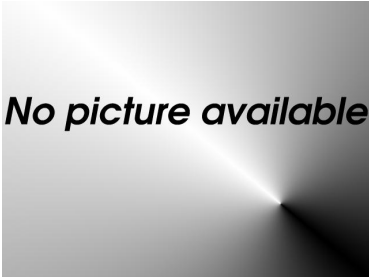
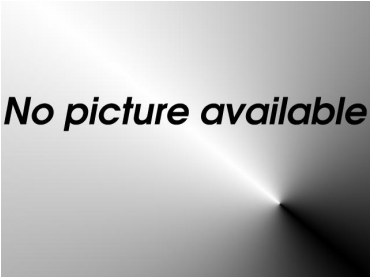
Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-12-66-3-2
MAIS	2=Moderate
Seat Position	Front right side

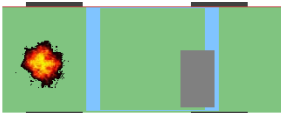
AIS Level	Injury Description	Contacts
2=Moderate	Carpus or metacarpus fracture	Unknown SOURCE
1=Minor	Awake on admission, never unconscious	Roof
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE
1=Minor	Facial skin avulsion, superficial	Roof
1=Minor	Leg skin abrasion	Right panel

Occupant: 1997-12-66-3-3



Fire Information

Fire Occurence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	10 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral	< 0.5 KMPH < 0.5 KMPH <
δV	0.5 KMPH
Est. δV with sequence num-	SEVERE 4
ber	
CDC	0 R D A O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTRN
Object Contacted 2	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	34.052922194
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	FLIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	CONCRETE BARRIER
Contacted	
Location on Vehicle where	UNDERCARRIAGE
Principal Tripping Force was	
Applied	
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	GMC Jimmy/S-15 based
Year	1997
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	183

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Maneu-	No AVOIDANCE
ver	
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	26	Height	175	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

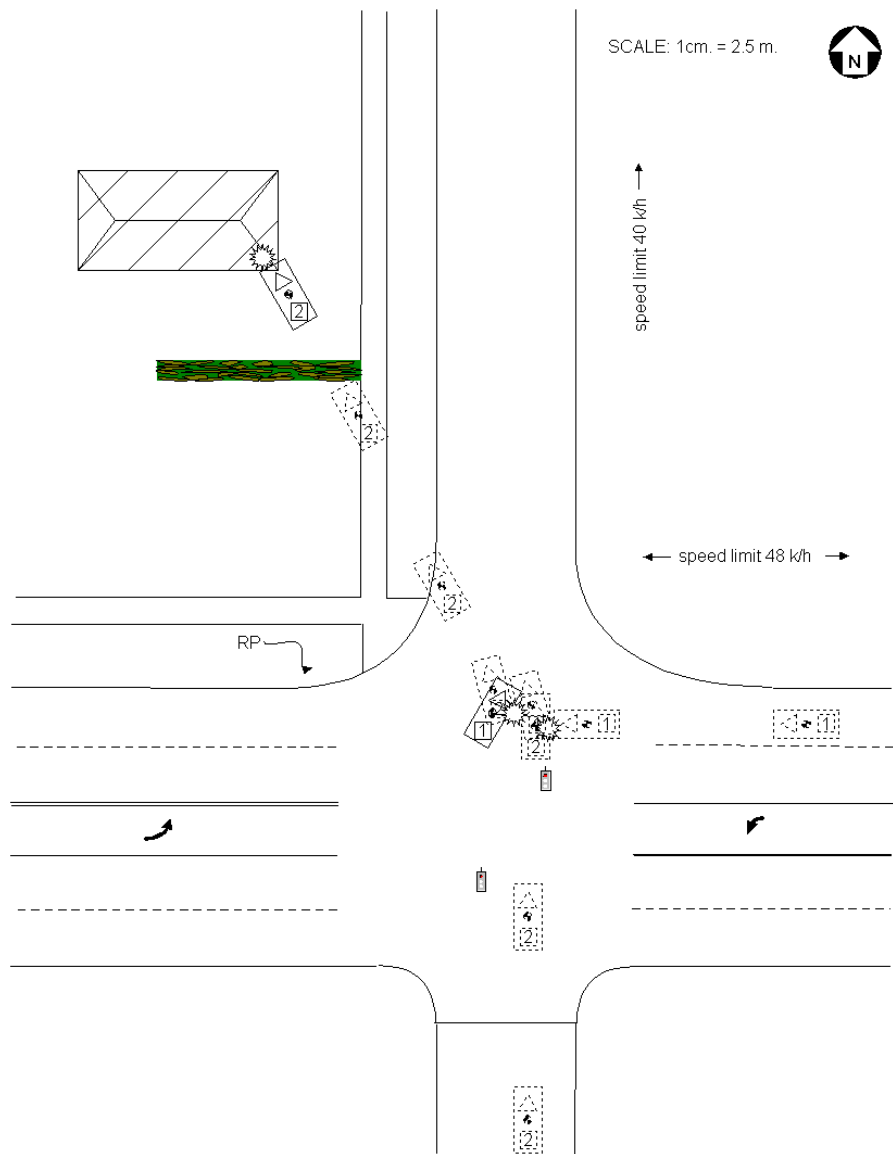
Occupant	1997-12-66-3-3
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Awake on admission, never unconscious	Roof
1=Minor	Scalp laceration, minor	Flying glass
1=Minor	Scalp abrasion	Flying glass

17 Case 1997-13-147

Summary:

Veh. 1 was westbound on 5 lane city street in the 1 st lane and struck veh.2 in the right side. Vehicle 2 caromed off to the NW and struck a shrub and a house.



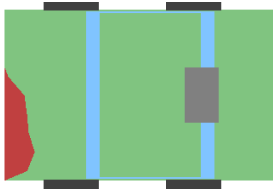
Vehicle	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Lincoln	TownCar/Continental	1972	1	77	MALE	0=None
2	COMPACT UTILITY	Chevrolet	S-10 Blazer	1985	1	31	MALE	2=Moderate

Occupant: 1997-13-147-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -11 15
Est. δV with sequence number	DELTA V CODED 1
CDC	70 F D E W 2
Damage (C1-C6)	33 44 35 33 29 6
Crush (L and D)	165 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	1653.0101628
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Lincoln TownCar/Continental
Year	1972
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	225

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	77	Height	173	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-147-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1997-13-147-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -19 -22
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Y E W 3
Damage (C1-C6)	0 17 35 8 11 6
Crush (L and D)	216 71
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	BUILDING

NASS Weighting Factor

Weighting factor	1653.0101628
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	1985
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	143

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	31	Height	168	Weight	70
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

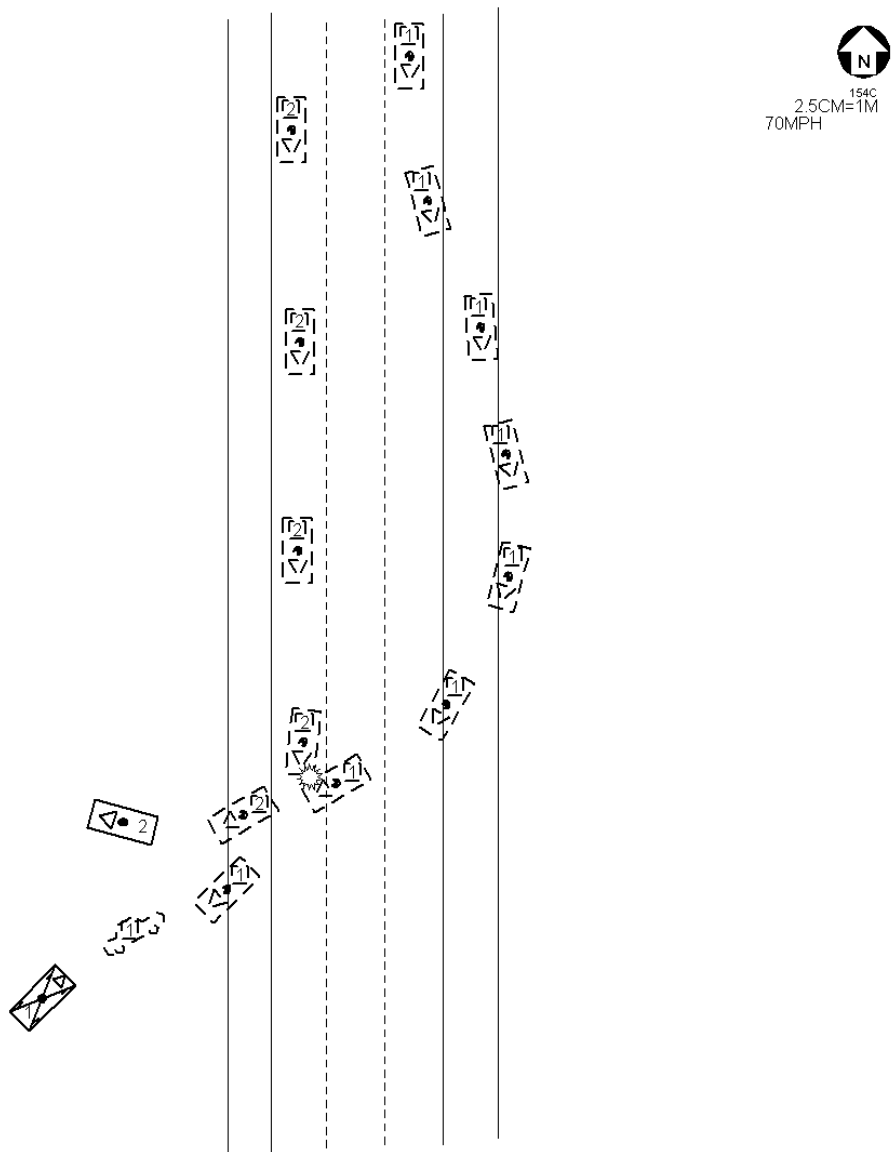
Occupant	1997-13-147-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Clavicle fracture	Seat, back
1=Minor	Scalp abrasion	Sunvisor
1=Minor	Facial skin abrasion	Mirror
1=Minor	Facial skin laceration, minor	Mirror
1=Minor	Upper extremity skin abrasion	Seat, back
1=Minor	Upper extremity skin contusion	Seat, back

18 Case 1997-13-154

Summary:

VEHICLE #s 1 AND 2 WERE TRAVELING SOUTH ON A 2 LANE 50MPH, DRY, ASPHALT ROAD. THE DRIVER OF V1 FELL ASLEEP AND THE VEHICLE DRIFTED OFF THE EAST SIDE OF THE ROAD. THE DRIVER AWAKENED AND OVERCORRECTED CAUSING THE VEHICLE TO LOSE CONTROL TOWARD THE WEST, ACROSS V2'S SOUTHBOUND LANE. THE RIGHT FRONT OF VEHICLE #1 CONTACTED THE LEFT FRONT OF VEHICLE # 2. BOTH VEHICLES DEPARTED THE ROAD ON THE WEST SIDE AND CONTINUED INTO A DITCH. VEHICLE #1 CONTACTED THE DITCH WITH THE FRONT LEFT PLANE AND ROLLED OVER APPROXIMATELY 2 QUARTER TURNS BEFORE COMMING TO FINAL REST ON ITS ROOF. BOTH VEHICLES WERE TOWED FROM THE SCENE. ALL OCCUPANTS WERE TAKEN TO THE HOSPITAL FOR TREATMENT OF INJURIES.



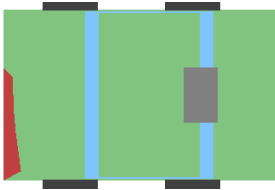
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Chrysler	Cordoba	1980	1	39	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Dodge	Intrepid	1993	1	39	FEMALE-NOT PREG	0=None
2	4-DR SEDAN/HDTOP	Dodge	Intrepid	1993	2	13	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Dodge	Intrepid	1993	3	3	FEMALE-NOT PREG	0=None

Occupant: 1997-13-154-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 2
CDC	0 F D E W 2
Damage (C1-C6)	25 22 18 16 14 13
Crush (L and D)	165 0
Object Contacted 1	DITCH/CULVERT
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	876.05498639
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Chrysler Cordoba
Year	1980
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	151

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	39	Height	160	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-154-1-1
MAIS	1=Minor
Seat Position	Front left side

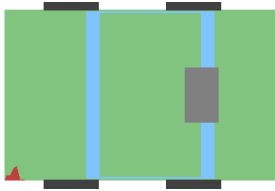
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact

Occupant: 1997-13-154-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	10 L F E E 1
Damage (C1-C6)	7 7 17 21 0 0
Crush (L and D)	31 210
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	876.05498639
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	39	Height	160	Weight	52
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-154-2-1
MAIS	0=None
Seat Position	Front left side

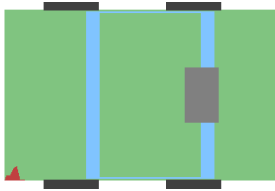
AIS Level	Injury Description	Contacts
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Occupant: 1997-13-154-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	10 L F E E 1
Damage (C1-C6)	7 7 17 21 0 0
Crush (L and D)	31 210
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	876.05498639
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	13	Height	160	Weight	52
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-154-2-2
MAIS	1=Minor
Seat Position	Front right side

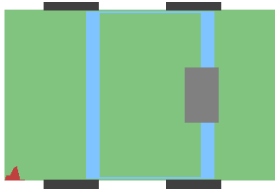
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Unknown SOURCE

Occupant: 1997-13-154-2-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	SIX
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	146

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	10 L F E E 1
Damage (C1-C6)	7 7 17 21 0 0
Crush (L and D)	31 210
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	48
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	876.05498639
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PASSENGER Factors

Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	3	Height	91	Weight	16
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

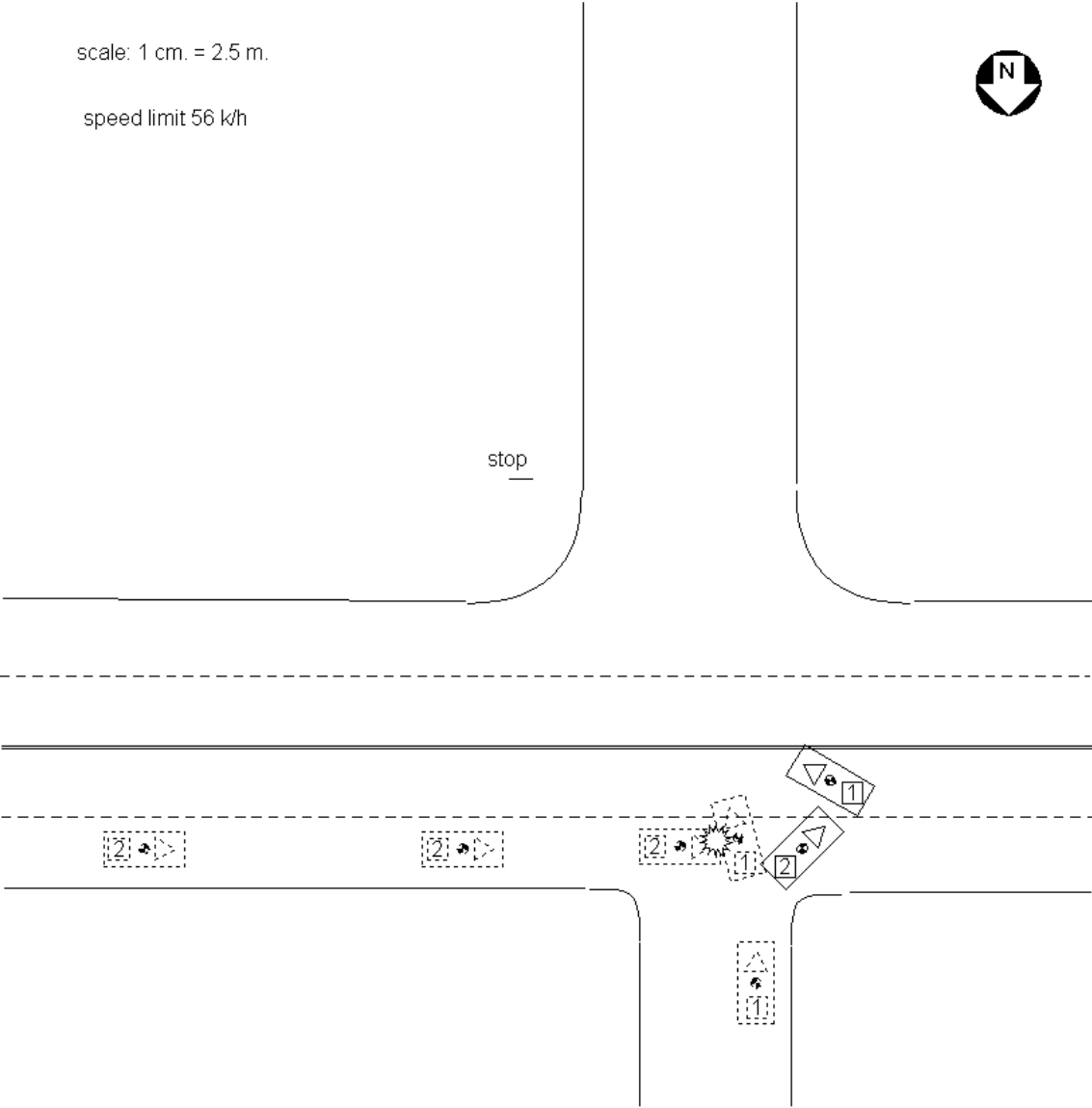
Occupant	1997-13-154-2-3
MAIS	0=None
Seat Position	Second left

AIS Level	Injury Description	Contacts
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19 Case 1997-13-193

Summary:

Vehicle 1 was exiting a driveway and was struck in the left side by westbound v-2.



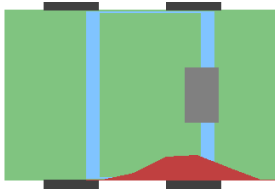
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Taurus	1991	1	32	MALE	1=Minor
2	COMPACT UTILITY	Ford	Bronco II	1984	1	44	MALE	1=Minor

Occupant: 1997-13-193-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -20 12
Est. δV with sequence number	DELTA V CODED 1
CDC	11 L Z E W 3
Damage (C1-C6)	0 11 34 37 18 0
Crush (L and D)	279 -53
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	653.27326136
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Taurus
Year	1991
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	142

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	32	Height	180	Weight	84
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-193-1-1
MAIS	1=Minor
Seat Position	Front left side

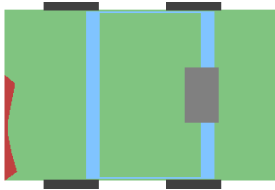
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Thoracic skin contusion	Left interior
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Leg skin contusion (hematoma)	Left interior

Occupant: 1997-13-193-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	22 -17 -14
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F D E W 1
Damage (C1-C6)	18 10 5 5 10 16
Crush (L and D)	155 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	653.27326136
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Bronco II
Year	1984
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	147

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	44	Height	178	Weight	82
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

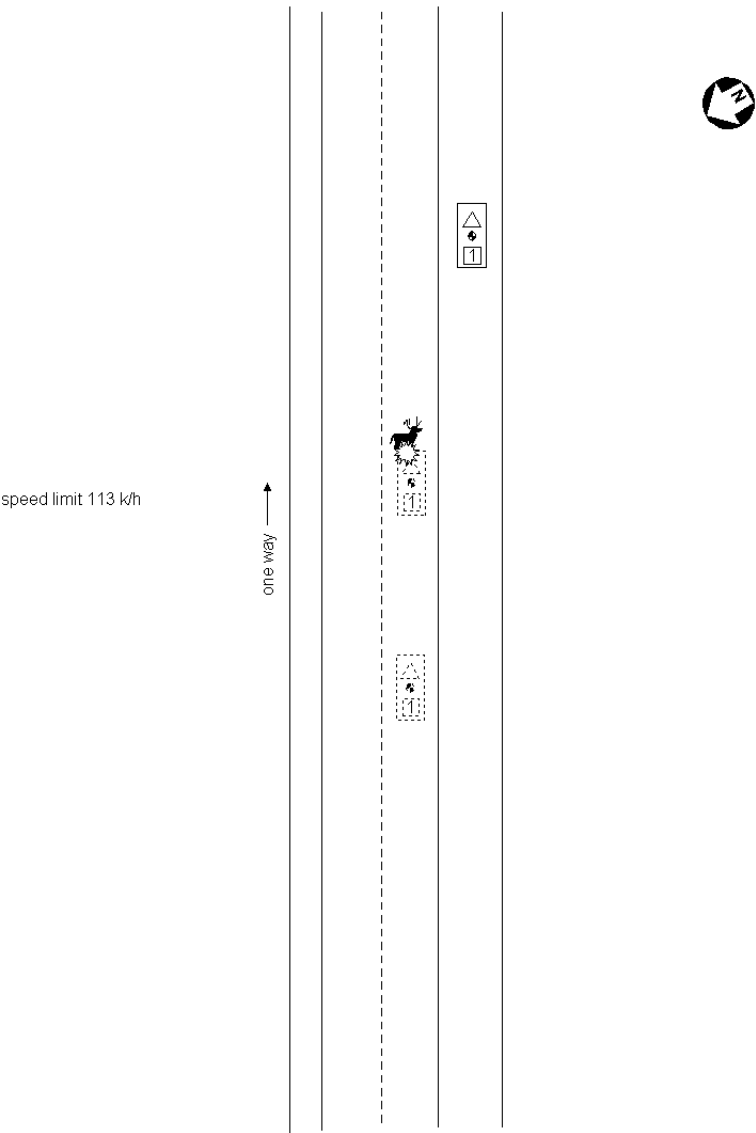
Injuries

Occupant	1997-13-193-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Left apnel

20 Case 1997-13-195

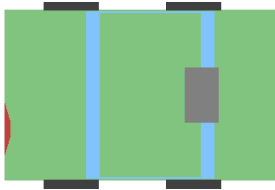
Summary:
Veh. was east bound on a 2 lane expressway in the right lane when it struck a deer.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	GMC	S15	1984	1	63	MALE	0=None

Occupant: 1997-13-195-1-1**Fire Information**

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline

**Pre-Crash Environment**

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	MINOR 1
Damage (C1-C6)	12 F D E W 1
Crush (L and D)	0 0 8 8 0 0
Object Contacted 1	150 0
Object Contacted 2	ANIMAL
	0

NASS Weighting Factor

Weighting factor	1791.1914811
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	GMC S15
Year	1984
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	122

Pre-Crash Driver Data

Accident Type	13
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	ANIMAL IN ROAD
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	63	Height	170	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

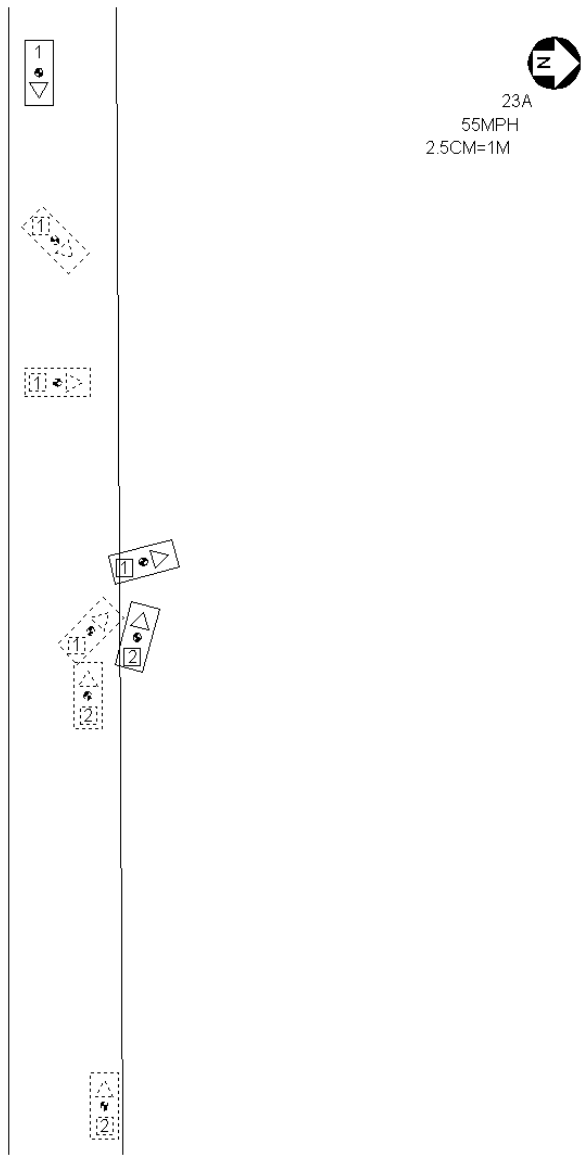
Injuries

Occupant	1997-13-195-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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21 Case 1997-13-23

Summary:
VEHICLE # 1 WAS EAST BOUND ON A 2 LANE ASPHALT ICY ROAD , 55MPH AND ROTATED COUNTERCLOCKWISE BEING CONTACTED IN THE RIGHT REAR BY VEHICLE # 2'S FRONT WHICH WAS WEST BOUND ON THE SAME ROAD . BOTH VEHICLES WERE TOWED FROM YHE SCENE, AND EVERYONE WAS TAKEN TO THE HOSPITAL, THE OCCUPANT OF VEHICLE # 1 DIED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	Intrepid	1995	1	21	FEMALE-NOT PREG	6=Maximum
2	MINIVAN	Ford	Aerostar	1992	1	36	FEMALE-NOT PREG	1=Minor
2	MINIVAN	Ford	Aerostar	1992	2	8	MALE	1=Minor

Occupant: 1997-13-23-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Intrepid
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	150

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 39 -23
Est. δV with sequence number	DELTA V CODED 1
CDC	85 R Z A W 7
Damage (C1-C6)	126 107 63 26 9 1
Crush (L and D)	140 -129
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	89.920222814
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DRIVER Factors

Age	21	Height	168	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-23-1-1
MAIS	6=Maximum
Seat Position	Front left side

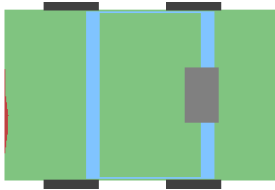
AIS Level	Injury Description	Contacts
6=Maximum	Brain stem laceration	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	Right interior
4=Severe	Cerebral intraventricular hemorrhage	Right interior
4=Severe	Cerebral intraventricular hemorrhage	Right interior
3=Serious	Cerebral edema, NFS	Right interior
4=Severe	Cerebellar laceration	Right interior
5=Critical	Brainstem compression (includes herniation)	Right interior
4=Severe	Cerebral hematoma, NFS	Right interior
2=Moderate	Pelvic fracture, closed	Belt webb/buckle
1=Minor	Leg skin abrasion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Right interior
1=Minor	Scalp laceration, minor	Flying glass
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Facial skin contusion	Right interior
1=Minor	Single rib fracture	Seat, back
1=Minor	Rib cage contusion	Seat, back
3=Serious	Lung contusion, unilateral	Seat, back
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Belt webb/buckle
5=Critical	Unconscious on admission, inappropriate movements	Right interior

Occupant: 1997-13-23-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -37 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D A W 1
Damage (C1-C6)	1 0 4 5 2 2
Crush (L and D)	164 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	89.920222814
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Aerostar
Year	1992
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	176

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	No DRIVER
Critical Pre-crash Event	0
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

DRIVER Factors

Age	36	Height	170	Weight	79
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-23-2-1
MAIS	1=Minor
Seat Position	Front left side

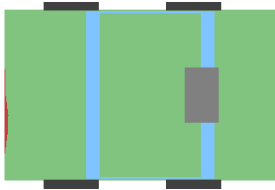
AIS Level	Injury Description	Contacts
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Belt webb/buckle
1=Minor	Leg skin contusion (hematoma)	Knee bolster

Occupant: 1997-13-23-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -37 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D A W 1
Damage (C1-C6)	1 0 4 5 2 2
Crush (L and D)	164 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	89.920222814
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Aerostar
Year	1992
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	176

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	No DRIVER
Critical Pre-crash Event	0
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

PASSENGER Factors

Age	8	Height	124	Weight	42
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

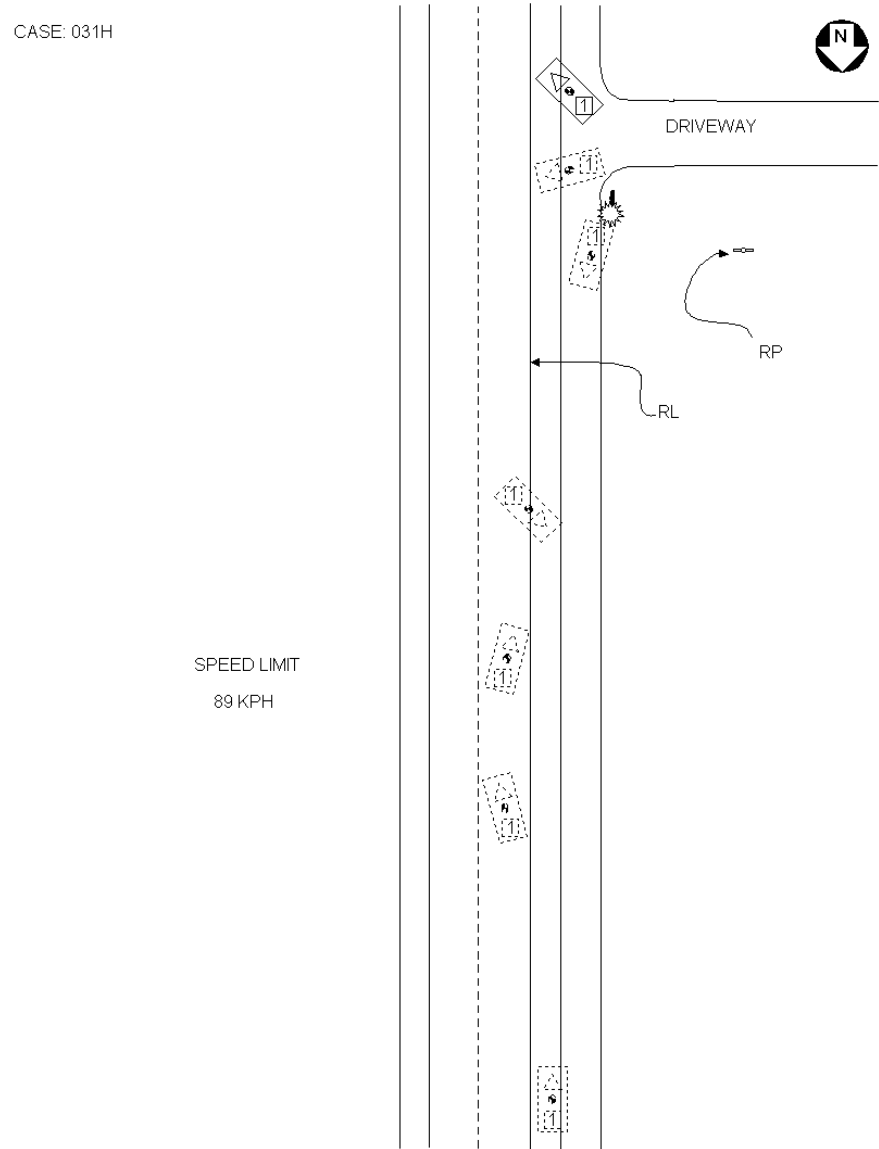
Occupant	1997-13-23-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Belt webb/buckle
1=Minor	Facial skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Belt webb/buckle

22 Case 1997-13-31

Summary:

Driver was southbound on 2 lane, slush covered, asphalt road when she lost traction . The driver tried slowing which caused the vehicle to rotate clockwise. (This rotation was caused by the poor condition of the rear tires.) The vehicle had rotated nearly 180 degrees when it struck a mailbox post (10 cm. dia. steel pipe) upon which was mounted several mailboxes. The vehicle struck this object with the left rear corner of the bumper .The upper portion of the post, containing the boxes, struck across the trunk deck,the "C" pillar and into the backlite. As the vehicle passed over the post, the fuel tank was punctured, leaving a ragged hole approx. 12cm. wide and causing all the fuel to spill. No fires resulted and the driver was not injured.



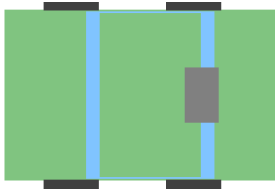
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Pontiac	Grand Prix	1993	1	38	FEMALE-NOT PREG	0=None

Occupant: 1997-13-31-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	SNOW OR SLUSH
Light Conditions	DARK
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Pontiac Grand Prix
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	154

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	5 B L A E 6
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	MEDIUM POLE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	7128.6063269
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	38	Height	158	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

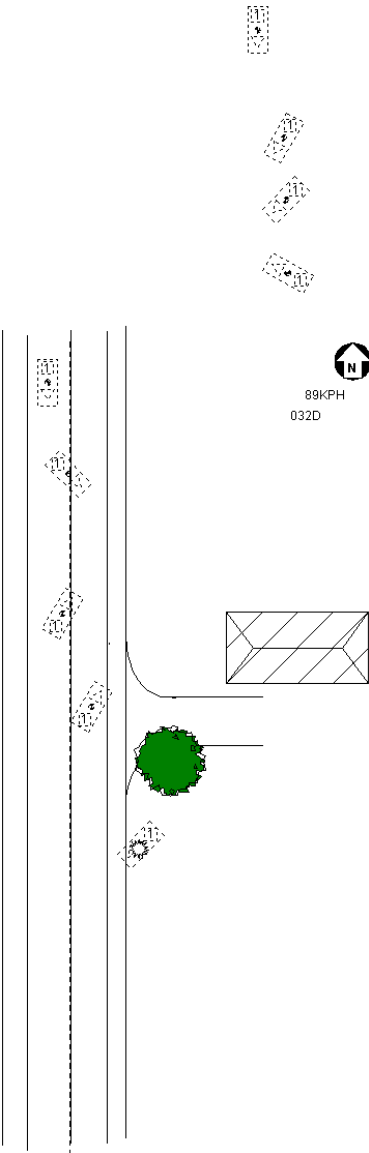
Occupant	1997-13-31-1-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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23 Case 1997-13-32

Summary:

VEHICLE # 1 WAS SOUTH BOUND ON A 2 LANE , ASPHALT , ICY, SNOWY , 89KPH, RURAL ROAD AND LOST CONTROL GOING OFF THE LEFT SIDE OF THE ROAD STRIKING A TREE WITH THE RIGHT DOOR . FINAL REST WAS BE SIDE THE TREE. THERE WAS A MINOR FIRE UNDER THE HOOD WHICH WAS EXTINGIST BY A BY STANDER . THE LONE OCCUPANT WAS TRNSPORTED TO THE HOSPITAL.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Dodge	600	1987	1	16	MALE	2=Moderate

Occupant: 1997-13-32-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	SNOW OR SLUSH
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	62 < 0.5 KMPH -62
Est. δV with sequence number	DELTA V CODED 1
CDC	63 R Y A W 4
Damage (C1-C6)	7 22 67 71 11 0
Crush (L and D)	261 72
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	95.49743774
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge 600
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	118

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	16	Height	180	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

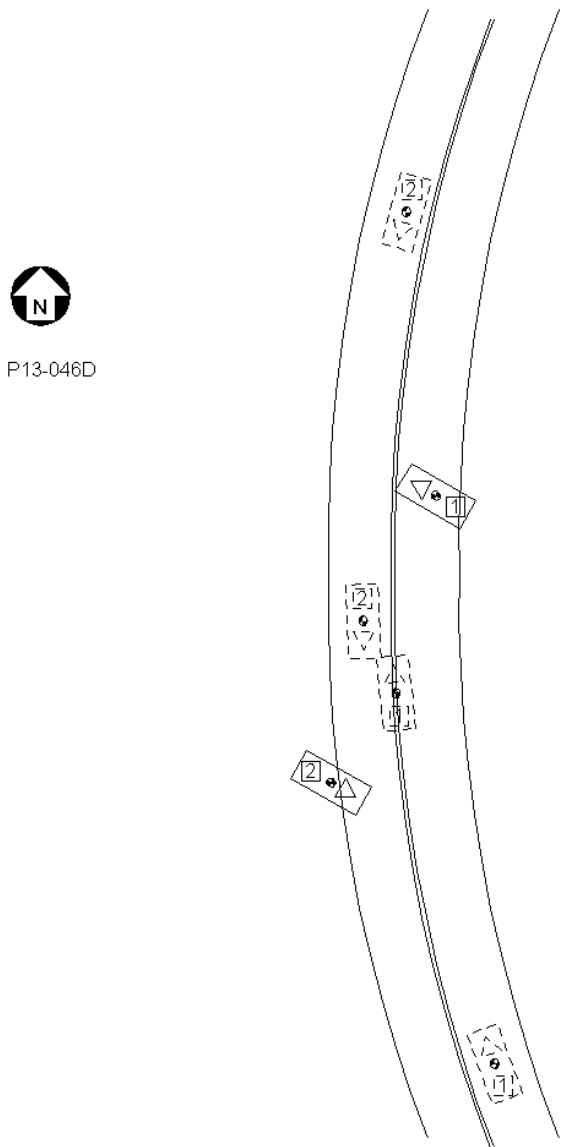
Occupant	1997-13-32-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE
1=Minor	Thoracic skin contusion	Unknown SOURCE

24 Case 1997-13-46

Summary:

VEHICLE # 1 WAS NORTH BOUND ON A CURVED, ASPHALT, 40MPH, WET, 2 LANE ROAD. VEHICLE # 2 WAS SOUTH BOUND ON THE SAME RURAL ROAD. BOTH VEHICLES EXPERIENCED CONTACT TO THE FRONT PLANES. THE VEHICLES CAME TO FINAL REST IN THE SOUTH BOUND LANE. THE OCCUPANTS OF THE INVOLVED VEHICLES SUSTAINED "A" INJURIES AND WERE TRANSPORTED TO MEDICAL FACILITIES FOR TREATMENT.



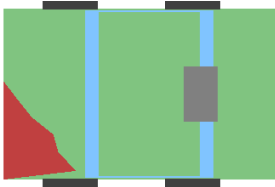
Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1986	1	18	MALE	2=Moderate
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1986	2	20	MALE	3=Serious
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1994	1	20	MALE	2=Moderate
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1994	2	19	MALE	1=Minor

Occupant: 1997-13-46-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	60 -60 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	106 81 73 42 21 0
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	81.995510366
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1986
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	124

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	18	Height	163	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-46-1-1
MAIS	2=Moderate
Seat Position	Front left side

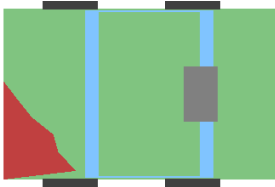
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, prior unconscious, length NFS	Windshield
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Upper extremity skin abrasion	Center panel
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Thoracic skin abrasion	Steering comb
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	297602	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Teeth fracture	Windshield

Occupant: 1997-13-46-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	60 -60 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	106 81 73 42 21 0
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	81.995510366
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1986
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	124

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	20	Height	180	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-46-1-2
MAIS	3=Serious
Seat Position	Front right side

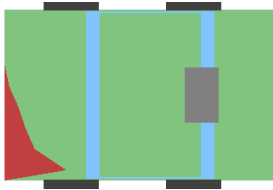
AIS Level	Injury Description	Contacts
3=Serious	Retroperitoneal hemorrhage of hematoma	Belt webb/buckle
2=Moderate	Splenic laceration NFS	Belt webb/buckle
1=Minor	Leg skin abrasion	Right panel
1=Minor	Facial skin abrasion	Right panel

Occupant: 1997-13-46-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	50 -49 9
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	89 44 30 20 7 0
Crush (L and D)	184 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	81.995510366
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	165

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	20	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-46-2-1
MAIS	2=Moderate
Seat Position	Front left side

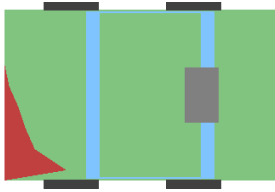
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, prior unconscious, length NFS	Left A pillar
2=Moderate	Knee sprain	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Upper extremity skin abrasion	Center panel
1=Minor	Facial skin laceration, minor	Other noncontact

Occupant: 1997-13-46-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	50 -49 9
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	89 44 30 20 7 0
Crush (L and D)	184 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	81.995510366
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	165

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	19	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

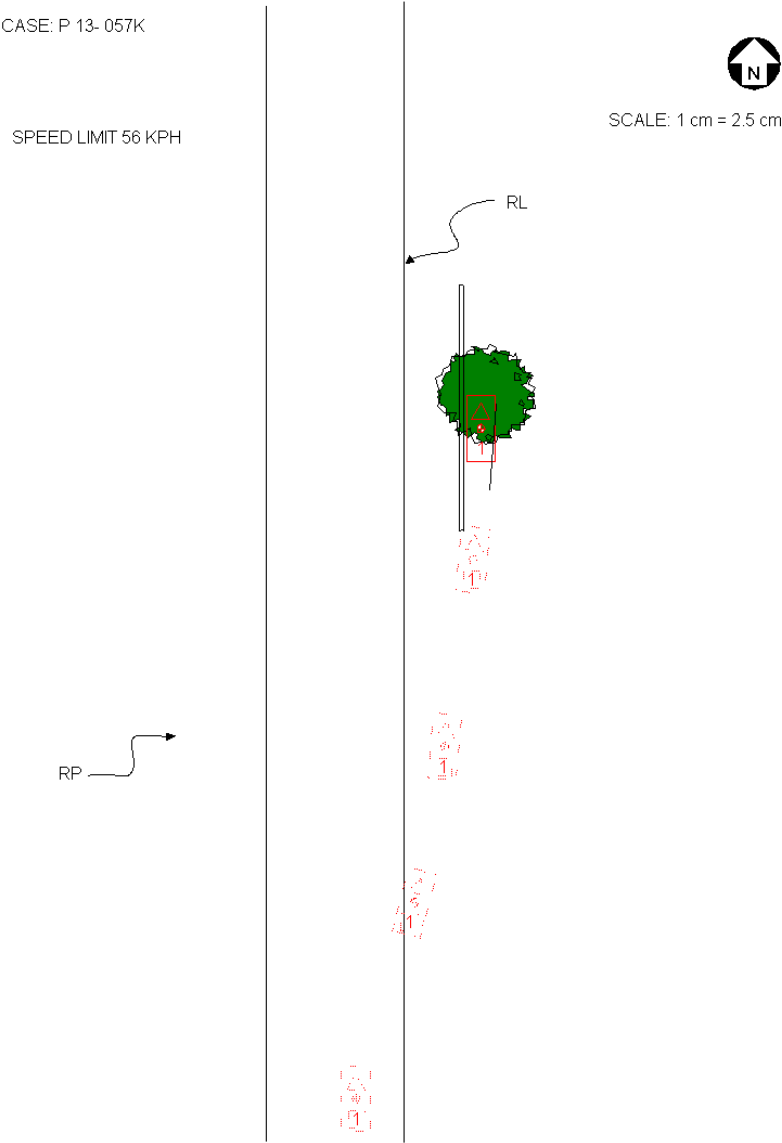
Occupant	1997-13-46-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Nose fracture, closed	Windshield
1=Minor	Leg skin abrasion	Right panel
1=Minor	Skin contusion (body region unknown)	Right panel

25 Case 1997-13-57

Summary:

Vehicle was northbound on 2 lane gravel road when the driver lost control and went off the road, striking a utility pole that was on the ground and continued on, striking a large maple tree. Neither the driver nor the passenger were restrained .



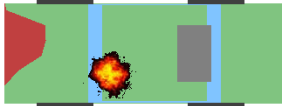
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Lumina	1993	1	18	FEMALE-NOT PREG	2=Moderate
1	4-DR SEDAN/HDTOP	Chevrolet	Lumina	1993	2	16	MALE	7=Unk. sev.

Occupant: 1997-13-57-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Instrument panel
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	SLAG/GRAVL/STONE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	47 -47 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Z E W 3
Damage (C1-C6)	0 25 66 74 72 3
Crush (L and D)	160 31
Object Contacted 1	LARGE TREE
Object Contacted 2	Oth NONFIXED OBJ

NASS Weighting Factor

Weighting factor	81.995510366
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Lumina
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	148

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	ACCELER IN LANE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-13-57-1-1
MAIS	2=Moderate
Seat Position	Front left side

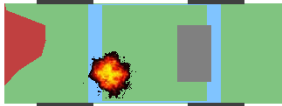
AIS Level	Injury Description	Contacts
2=Moderate	Fibular fracture, bi-malleolar or trimalleolar	Floor
2=Moderate	Ankle joint dislocation involving articular cartilage	Floor
1=Minor	Gingival laceration	Steering rim
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Upper extremity skin contusion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Left apnel
2=Moderate	Hip joint dislocation not involving articular cartilage	Steering rim
1=Minor	297602	Steering rim

Occupant: 1997-13-57-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Instrument panel
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	SLAG/GRAVL/STONE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	47 -47 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Z E W 3
Damage (C1-C6)	0 25 66 74 72 3
Crush (L and D)	160 31
Object Contacted 1	LARGE TREE
Object Contacted 2	Oth NONFIXED OBJ

NASS Weighting Factor

Weighting factor	81.995510366
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Lumina
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	148

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	ACCELER IN LANE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	16	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

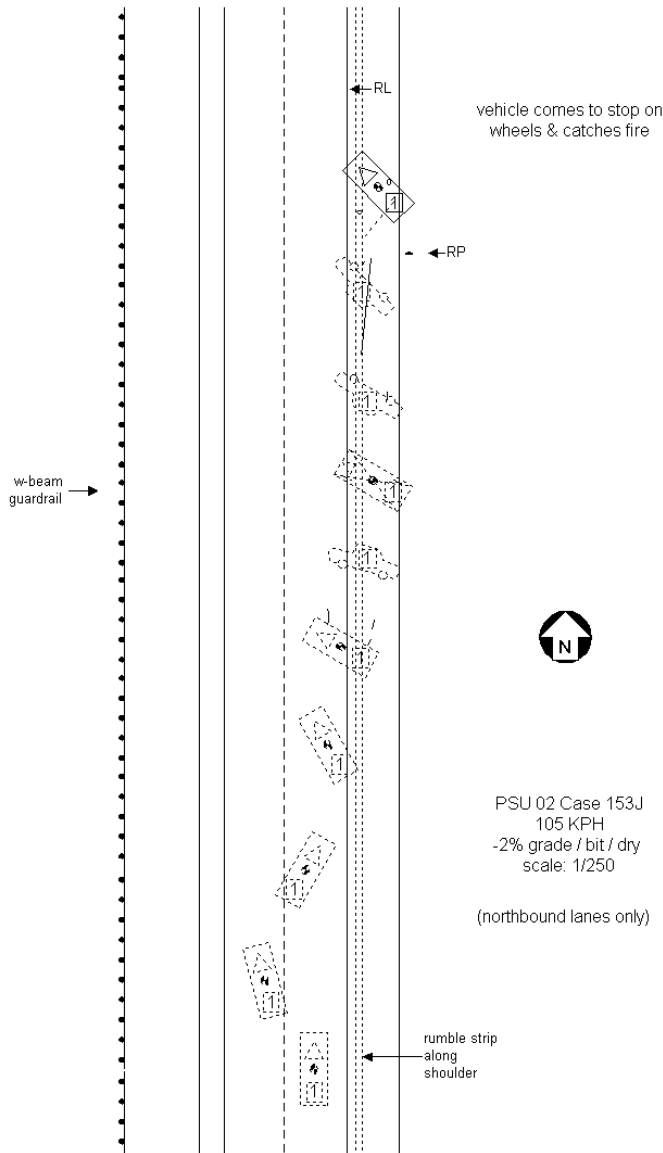
Occupant	1997-13-57-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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26 Case 1997-2-153

Summary:

Vehicle #1 traveling north on 4 lane divided roadway in driving lane. Vehicle #1's right front tire blows out causing operator to lose control. Vehicle #1 continues into passing lane, back into driving lane and corrects to left rotating counterclockwise then rolling over to the right. Vehicle #1 continues to roll 4 quarter turns and comes to rest on wheels on right shoulder of roadway. Vehicle #1 then catches fire (minor) in engine compartment. The weather was cloudy, the roadway dry and it was daylight at the time of the accident. Vehicle #1 was towed due to damage. Operator was transported, treated and hospitalized due to injuries, Occupant #2 was transported to hospital with wife, but not treated for his minor injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Toyota	4-Runner	1994	1	70	FEMALE-NOT PREG	2=Moderate
1	COMPACT UTILITY	Toyota	4-Runner	1994	2	71	MALE	1=Minor

Occupant: 1997-2-153-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, on the rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	60 T Y D O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	37.528023258
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Toyota 4-Runner
Year	1994
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	194

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	70	Height	168	Weight	58
Gender					FEMALE-NOT PREG
Ejection					PARTIAL EJECTION
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-2-153-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Left window glass
1=Minor	Upper extremity skin abrasion	Left panel
1=Minor	Upper extremity skin laceration NFS	Left panel
1=Minor	Upper extremity skin contusion	Belt webbing/buckle
1=Minor	297402	Unknown SOURCE
1=Minor	297402	Unknown SOURCE
1=Minor	Thoracic skin contusion	Belt webbing/buckle
1=Minor	Abdominal skin contusion	Belt webbing/buckle
1=Minor	297602	Flying glass
1=Minor	Scalp avulsion, superficial (<100 cms ²)	Unknown SOURCE
2=Moderate	Clavicle fracture	Belt webbing/buckle
1=Minor	Leg skin abrasion	Left panel
2=Moderate	Awake on admission, amnesia	Roof left rail

Occupant: 1997-2-153-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, on the rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	60 T Y D O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	37.528023258
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Toyota 4-Runner
Year	1994
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	194

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	71	Height	180	Weight	68
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

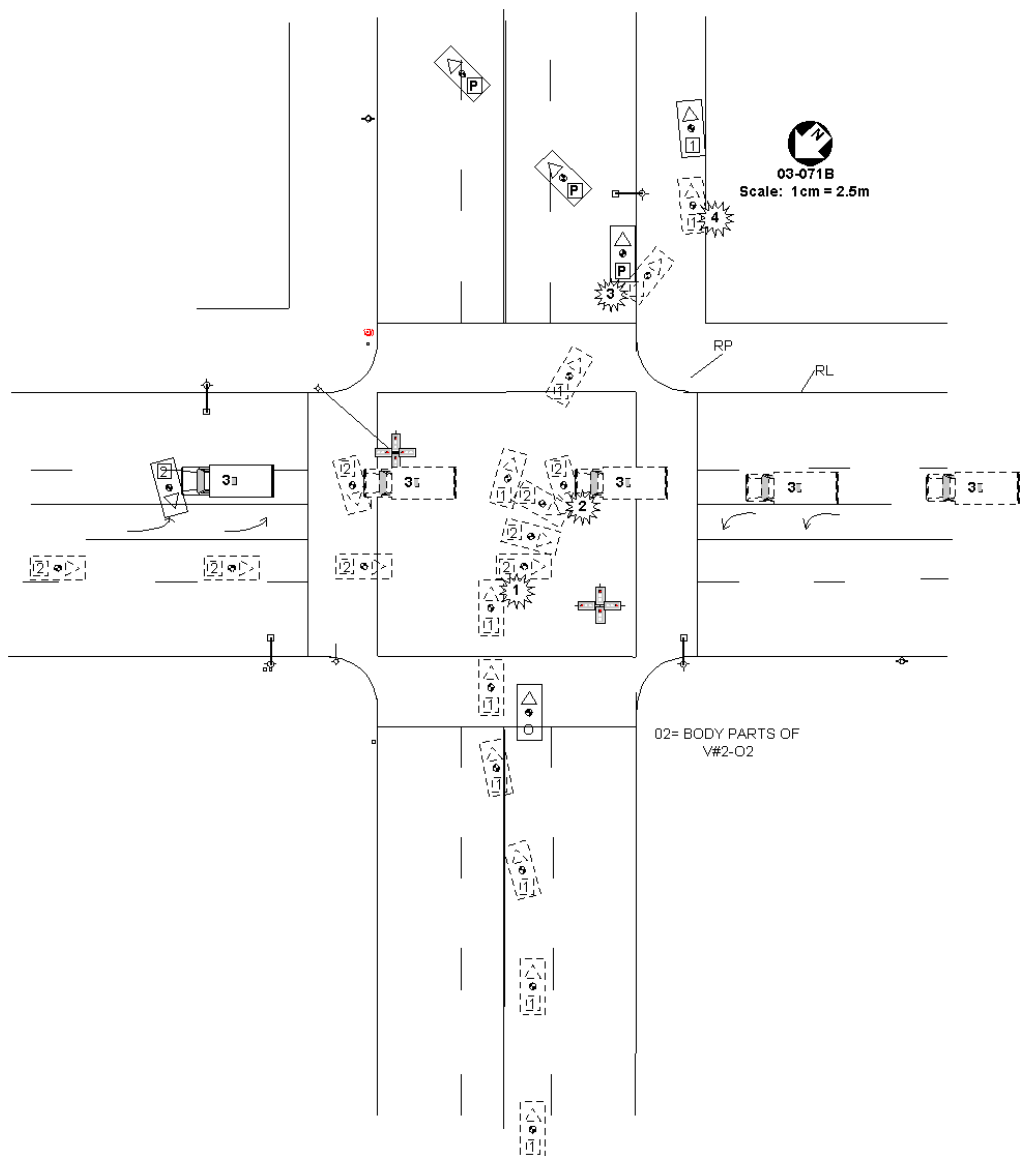
Occupant	1997-2-153-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Teeth fracture	Roof right rail

27 Case 1997-3-71

Summary:

VEHICLE #1 HEADING(157*S), VEHICLE #2 HEADING (242*W). BOTH VEHICLES #3 AND #4 HEADING (62*E.) ALL VEHICLES WERE TRAVELING ON LEVEL, DRY, BITUMINOUS TRAFFICWAYS. ALL VEHICLES WERE HEADING INTO THE SAME INTERSECTION WITH TRAFFIC SIGNAL WORKING. THE CURB HEIGHT AT THE LOCATION WAS 23 CENTIMETERS HIGH. VEHICLES #1, 2 AND 3 WERE PASSENGER TYPE VEHICLES. VEHICLE #4 WAS A HEAVY (LARGE) TRUCK TRANSPORTING AN ESTIMATED LOAD 40,000 POUND OF CONSTRUCTION LUMBER. VEHICLE #1 DROVE INTO THE ONCOMING TRAFFICWAY TO PASS A MOTOR VEHICLE IN TRANSPORT. IT STRUCK VEHICLE #2 AT THE RIGHT REAR BUMPER WITH IT'S LEFT FRONT LEFT BUMPER . BOTH VEHICLES LOST CONTROL AND BEGAN TO ROTATE.(SEE DIAGRAM). VEHICLE #2 IMPACTED WITH VEHICLE #4. VEHICLE #4 HIT, IMPACTED THE RIGHT PLANE OF VEHICLE #2 CAUSING STRUCTURAL SEPARATION TO VEHICLE #2 . AS A RESULT THE OCCUPANTS IN VEHICLE WERE KILLED. OCCUPANT #1 WAS CRUSHED (ENTRAPED, OCCU- PANT #2 WAS DISMEMBERED AND FULLY EJECTED ON THE ROADWAY, BOTH WERE DOA AT THE SCENE. VEHICLE #1 IMPACTED VEHICLE #3. V#1 LT QT PANEL TO V#3 REAR PLANE. V#1 IMPACTED V#3 ONCE MORE. POSSIBLY V#1 REAR PLANE TO V#3 LEFT PLANE. VEHICLE #3 MOVES TO FINAL REST SE*. VEHICLE #1 CONTINUE SW*, IMPACTS A BIULDING WALL AND COMES TO FINAL REST ON THE CURB. THE (3) OCCUPANTS OF VEHICLES 13 WERE TRANSPORTED TO THE HOSPITAL DUE INJURIES.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Ford	Taurus	1993	1	78	MALE	7=Unk. sev.
2	4-DR SEDAN/HDTOP	Nissan	Sentra	1990	1	76	FEMALE-NOT PREG	7=Unk. sev.
2	4-DR SEDAN/HDTOP	Nissan	Sentra	1990	2	70	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1997-3-71-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 3
CDC	9 L Z E W 3
Damage (C1-C6)	16 16 28 29 30 4
Crush (L and D)	115 180
Object Contacted 1	Not IN TRAN LGTVEH
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	28.069065409
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Taurus
Year	1993
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	140

Pre-Crash Driver Data

Accident Type	90
Pre-event Movement	Other
Critical Pre-crash Event	0
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	REMAIN OFF ROAD

DRIVER Factors

Age	78	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-3-71-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1997-3-71-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	1 R D A W 4
Damage (C1-C6)	55 58 58 62 55 12
Crush (L and D)	410 6
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	28.069065409
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Nissan Sentra
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	100

Pre-Crash Driver Data

Accident Type	90
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	76	Height	0	Weight	0
Gender	FEMALE-NOT PREG				
Ejection	COMPLETE EJECT				
Ejection Area	Right FRONT				
Entrapment	Not ENTRAPPED				

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-3-71-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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Occupant: 1997-3-71-2-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	1 R D A W 4
Damage (C1-C6)	55 58 58 62 55 12
Crush (L and D)	410 6
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	28.069065409
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Nissan Sentra
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	100

Pre-Crash Driver Data

Accident Type	90
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	70	Height	0	Weight	0
Gender	FEMALE-NOT PREG				
Ejection	COMPLETE EJECT				
Ejection Area	Right FRONT				
Entrapment	Not ENTRAPPED				

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

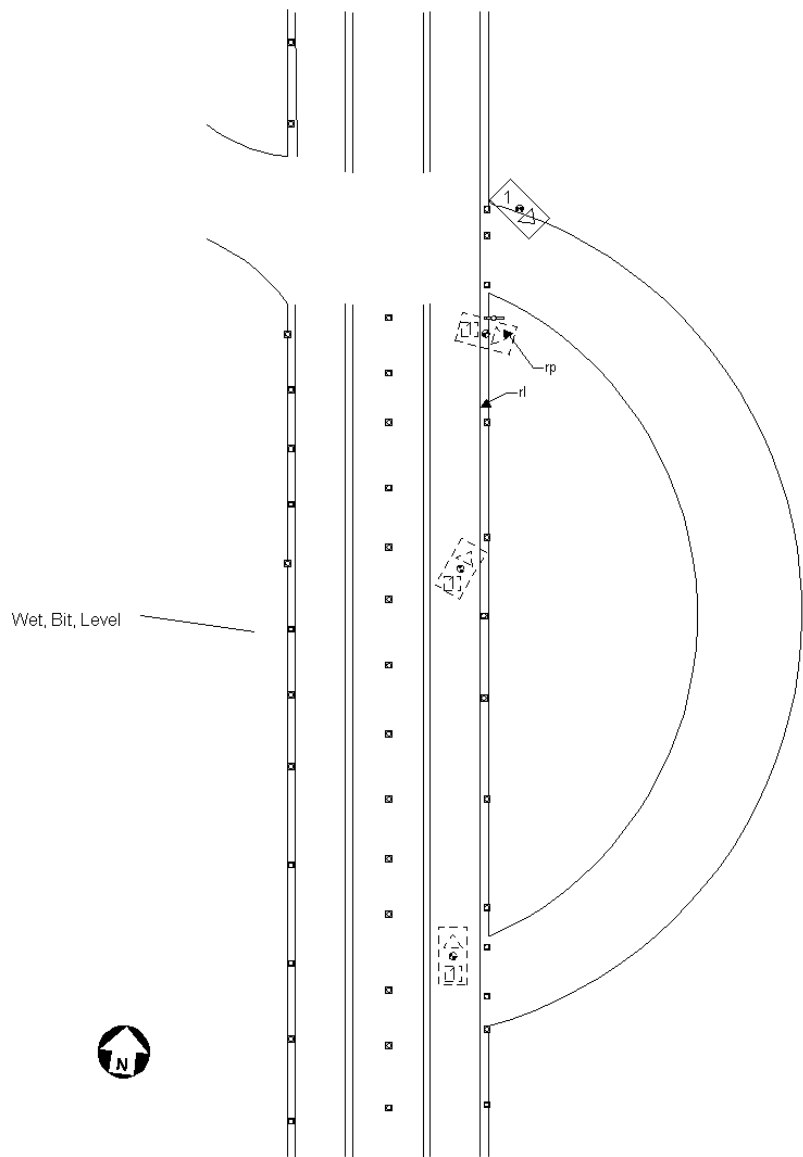
Injuries

Occupant	1997-3-71-2-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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28 Case 1997-4-32

Summary:
V1 was traveling west on a two lane roadway under moderate construction. The driver lost control and V1 departed the roadway to the right. The left side of V1 impacted a utility pole causing V1 to be towed due to severe damage. The driver was transported with "A" injuries.



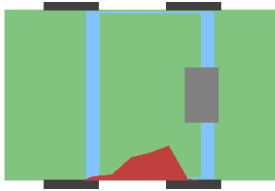
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1994	1	18	MALE	5=Critical

Occupant: 1997-4-32-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	10 L P E W 4
Damage (C1-C6)	5 8 33 41 51 2
Crush (L and D)	166 -43
Object Contacted 1	LARGE POLE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	18.53617698
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Honda Accord
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	127

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	178	Weight	66
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

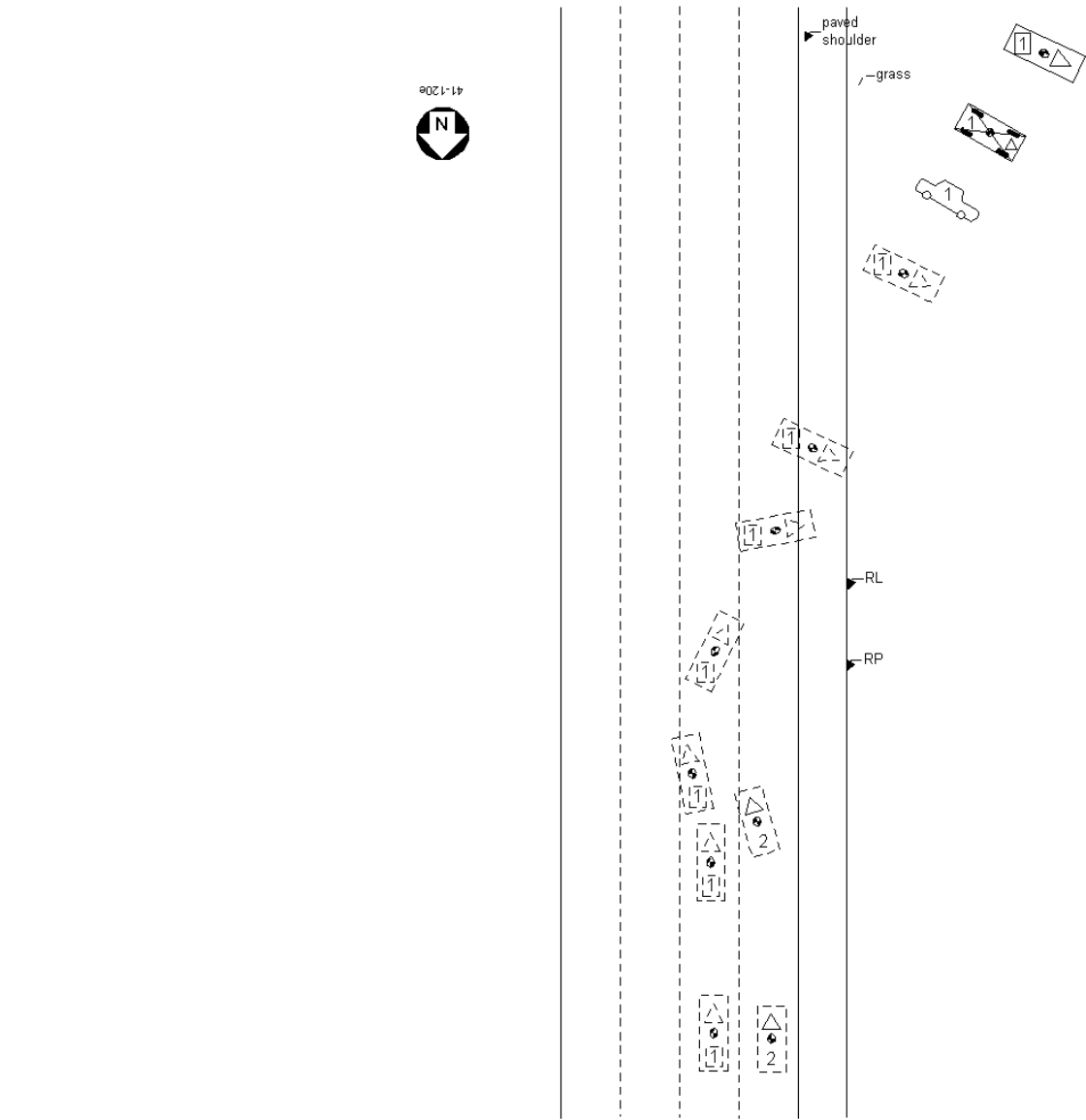
Occupant	1997-4-32-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Massive splenic injury (hilar disruption, tissue loss)	Left interior
4=Severe	Unconscious on admission, length NFS & neuro deficit	Roof left rail
1=Minor	Facial skin abrasion	Flying glass
1=Minor	Tongue laceration, superficial	Flying glass
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Left B pillar
3=Serious	Lung contusion, unilateral	Left interior
3=Serious	Basilar skull fracture, NFS	Roof left rail
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Skin contusion (body region unknown)	Left interior

29 Case 1997-41-120

Summary:

Accident scene: Four Southbound lanes of a major interstate that is divided. Conditions were level, bituminous, dry and daylight.
Accident sequence: V1 was Southbound in the second lane from the right when another vehicle changed lanes in front of V1. The avoidance action by V1 caused V1 to lose control and leave the roadway to the right. The grass shoulder has a 19



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Chevrolet	S-10 Blazer	1995	1	27	MALE	1=Minor

Occupant: 1997-41-120-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	80 T D D O 3
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	190.04961184
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet S-10 Blazer
Year	1995
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	167

Pre-Crash Driver Data

Accident Type	3
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	27	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

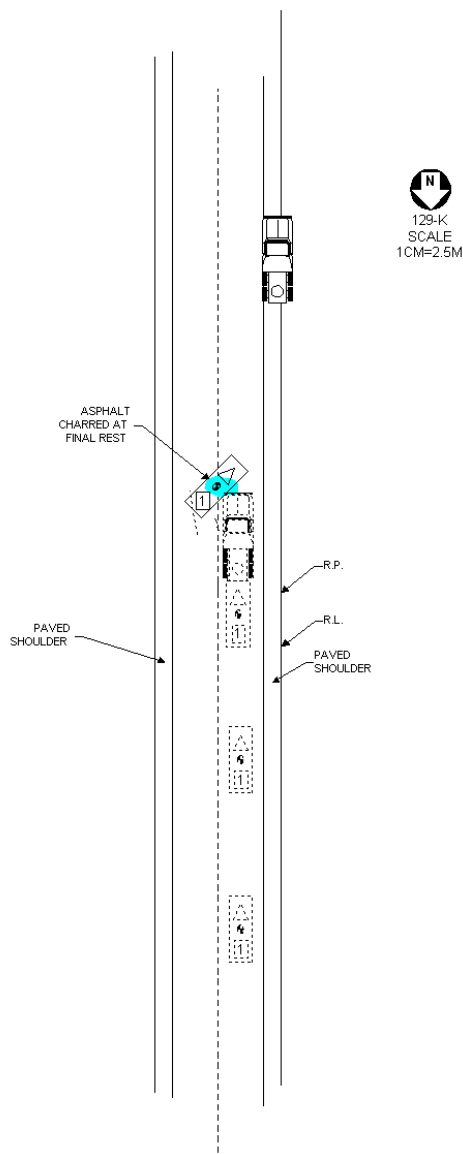
Occupant	1997-41-120-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Upper extremity skin laceration, minor	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Teeth fracture	Steering rim

30 Case 1997-41-129

Summary:

VEHICLE ONE WAS TRAVELING SOUTHBOUND ON TWO LANE ONE WAY ROADWAY,ROAD SURFACE BLACKTOP, LEVEL, DRY DURING NIGHT,VEHICLE TWO WAS STOPPED OR TRAVELING AT SLOW SPEED WHEN VEHICLE ONE COLLIDED WITH THE REAR OF VEHICLE TWO.AFTER DRIVER AND PASSENGER OF VEHICLE ONE WERE REMOVED VEHICLE ONE CAUGHT ON FIRE.VEHICLE ONE WAS TOWED FROM THE SCENE,THE DRIVER AND PASSENGER WERE TRANSPORTED TO A MEDICAL FACILITY,VEHICLE TWO AND DRIVER WERE RELEASED AT THE SCENE.....



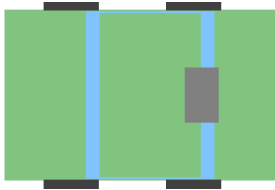
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Lincoln	Continental	1990	1	70	MALE	3=Serious
1	4-DR SEDAN/HDTOP	Lincoln	Continental	1990	2	57	FEMALE-NOT PREG	3=Serious

Occupant: 1997-41-129-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	19.922560625
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Lincoln Continental
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	166

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	No DRIVER
Critical Pre-crash Event	0
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

DRIVER Factors

Age	70	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-41-129-1-1
MAIS	3=Serious
Seat Position	Front left side

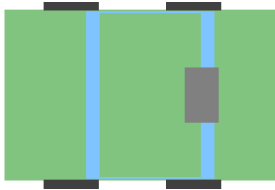
AIS Level	Injury Description	Contacts
3=Serious	Intertrochanteric femoral fracture	Left apnel
1=Minor	Facial skin laceration NFS	Unknown SOURCE
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1997-41-129-1-2



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	19.922560625
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Lincoln Continental
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	166

Pre-Crash Driver Data

Accident Type	24
Pre-event Movement	No DRIVER
Critical Pre-crash Event	0
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

PASSENGER Factors

Age	57	Height	0	Weight	0
Gender				FEMALE-NOT PREG	
Ejection				No EJECTION	
Ejection Area				No EJECTION	
Entrapment				Not ENTRAPPED	

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

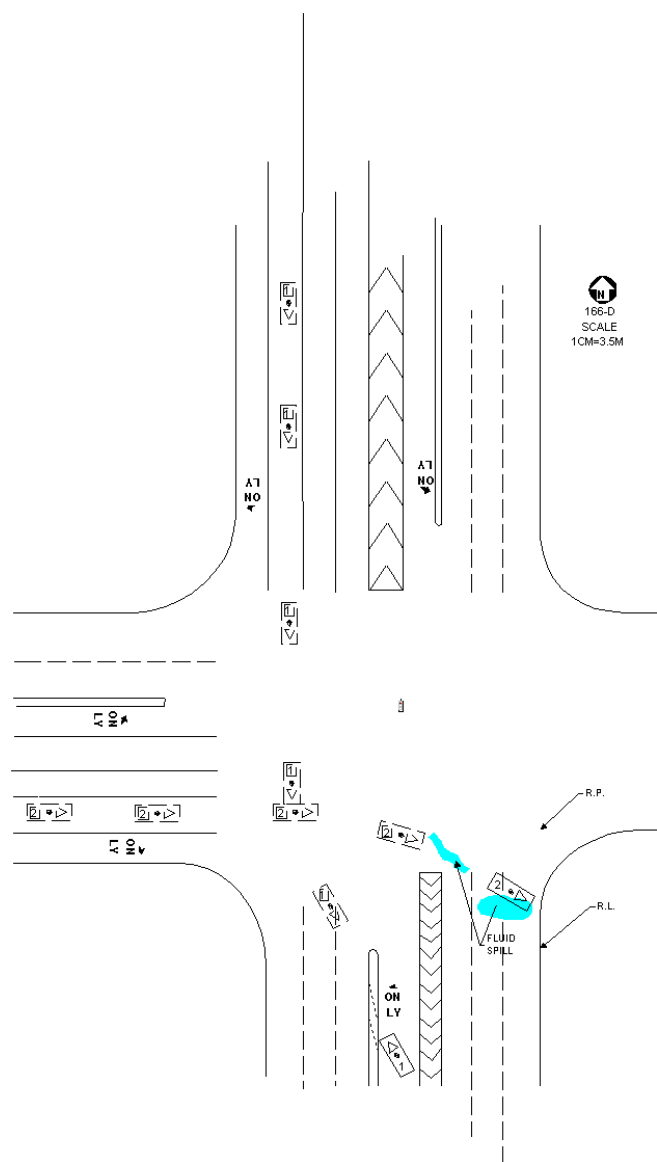
Occupant	1997-41-129-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Right panel
3=Serious	Pelvic fracture, open/displaced/comminuted	Unknown SOURCE
2=Moderate	2-3 rib fractures with stable chest	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Leg skin laceration, minor	Right panel
1=Minor	Scalp contusion	Unknown SOURCE
2=Moderate	Awake on admission, amnesia	Unknown SOURCE

31 Case 1997-41-166

Summary:

VEHICLE ONE WAS TRAVELING SOUTHBOUND ON FOUR LANE ROADWAY,ROAD SURFACE BLACK TOP,LEVEL,DRY DURING DAYLIGHT HOURS,TRAFFIC FLOW GOVERNED BY TRAFFIC SIGNAL.VEHICLE TWO WAS TRAVELING EAST-BOUND ON FIVE LANE ROADWAY,AS BOTH VEHICLES ENTERED INTERSECTION THE FRONT OF VEHICLE ONE COLLIDED WITH THE LEFT SIDE OF VEHICLE TWO AS RESULT OF IMPACT VEHICLE TWO CAUGHT ON FIRE FROM GAS TANK BEING RUPTURED,VEHICLE ONE AFTER COLLISION CONTINUED SOUTH BOUND ROTATING IN A COUNTER-CLOCKWISE DIRECTION COMING TO FINAL REST FACING NORTHWEST,VEHICLE TWO CAME TO FINAL REST FACING SOUTHEAST.BOTH VEHICLE'S WERE TOWED FROM THE SCENE,BOTH DRIVERS WERE TRANSPORTED TO A MEDICAL FACILITY.....



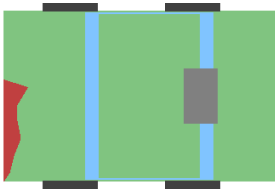
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Chevrolet	Camaro	1995	1	28	MALE	1=Minor
2	LARGE PICKUP	Chevrolet	C/K-series Pickup	1979	1	55	MALE	1=Minor

Occupant: 1997-41-166-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -18 -5
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F D E W 2
Damage (C1-C6)	9 15 26 20 20 36
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	190.45967957
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Camaro
Year	1995
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	148

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	28	Height	183	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-41-166-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Air bag-DR side
1=Minor	Upper extremity skin laceration, minor	Windshield
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Upper extremity skin abrasion	Windshield
1=Minor	Facial skin contusion	Air bag-DR side

Occupant: 1997-41-166-2-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	13 -2 13
Est. δV with sequence number	DELTA V CODED 1
CDC	9 L Z E W 3
Damage (C1-C6)	0 0 0 27 23 0
Crush (L and D)	255 -123
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	190.45967957
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1979
Class	TRUCK
Body Type	LARGE PICKUP
Weight	211

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	No DRIVER
Critical Pre-crash Event	0
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	No DRIVER

DRIVER Factors

Age	55	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

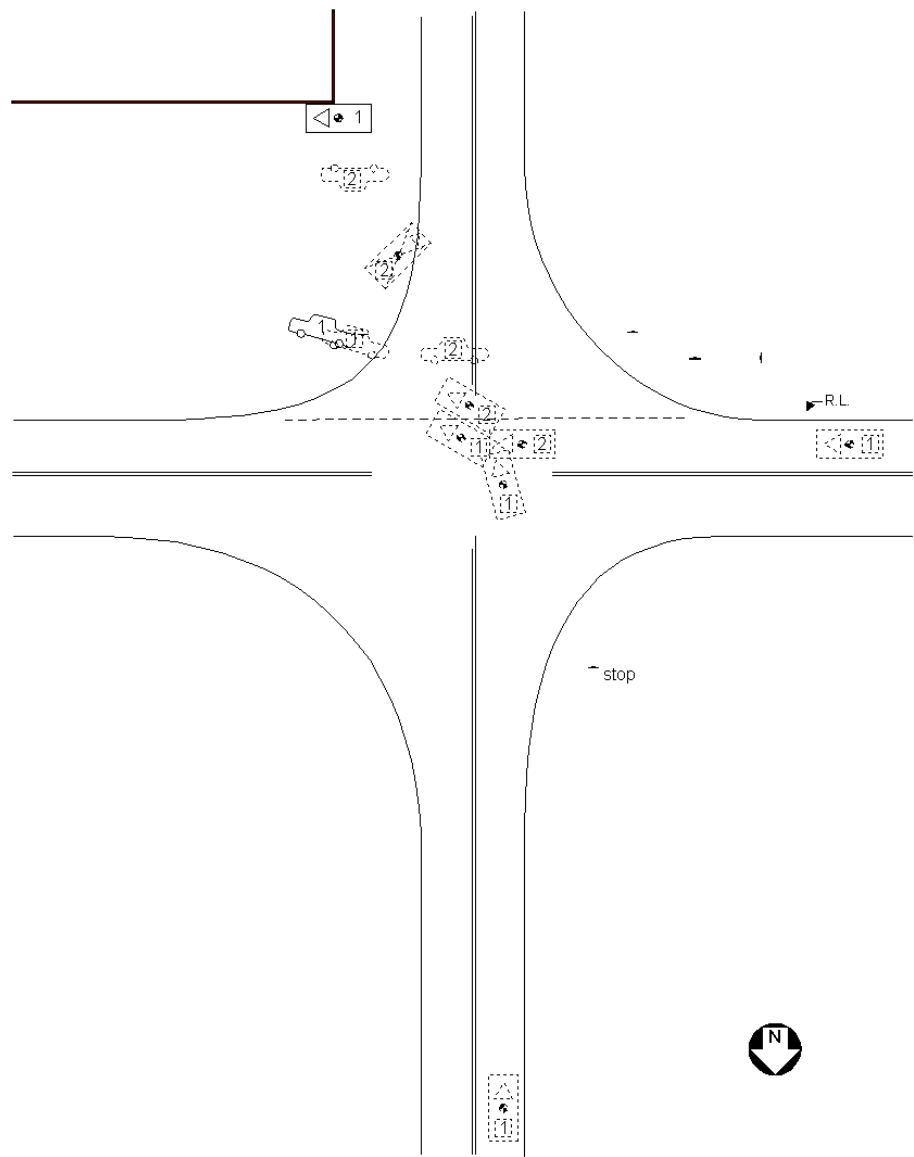
Occupant	1997-41-166-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact

32 Case 1997-43-14

Summary:

VEHICLE ONE WAS TRAVELING SOUTH IN THE RIGHT LANE OF A TWO LANE UNDIVIDED ROADWAY, ENTERING A FOUR LEG INTERSECTION. VEHICLE TWO WAS TRAVELING EAST IN THE RIGHT LANE OF A TWO LANE UNDIVIDED ROADWAY ENTERING THE SAME INTERSECTION. VEHICLE ONE'S FRONT IMPACTED VEHICLE TWO'S LEFT SIDE. VEHICLE ONE ROTATED APPROXIMATELY COUNTERCLOCKWISE 35



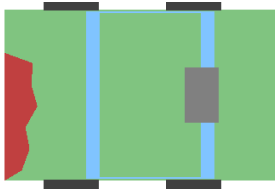
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1987	1	30	MALE	0=None
2	4-DR SEDAN/HDTOP	Toyota	Corolla	1995	1	36	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Toyota	Corolla	1995	2	37	FEMALE-NOT PREG	1=Minor

Occupant: 1997-43-14-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Diesel



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	998
Total, Longitudal, and Lateral δV	22 -7 -20
Est. δV with sequence number	DELTA V CODED 1
CDC	82 F D E W 3
Damage (C1-C6)	26 37 31 48 39 42
Crush (L and D)	188 26
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	38.595356265
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Rollover Characteristics

Number of Events	7
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1987
Class	TRUCK
Body Type	LARGE PICKUP
Weight	182

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	30	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-43-14-1-1
MAIS	0=None
Seat Position	Front left side

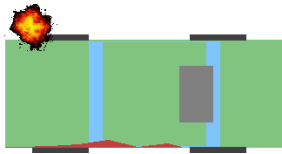
AIS Level	Injury Description	Contacts
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Occupant: 1997-43-14-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	10 L Y A W 2
Damage (C1-C6)	0 2 4 12 0 6
Crush (L and D)	278 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	38.595356265
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Rollover Characteristics

Number of Events	7
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 1
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Toyota Corolla
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	36	Height	173	Weight	64
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-43-14-2-1
MAIS	2=Moderate
Seat Position	Front left side

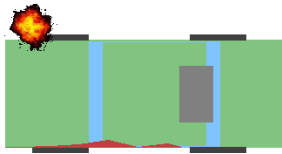
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Air bag-DR side
1=Minor	Facial skin abrasion	Left A pillar
1=Minor	Facial skin laceration NFS	Flying glass
1=Minor	Scalp contusion	Roof left rail
2=Moderate	Awake on admission, prior unconscious, length NFS	Roof left rail
1=Minor	Leg skin contusion (hematoma)	Left interior
2=Moderate	Scapular fracture	Left interior
1=Minor	Teeth fracture	OMV hood edge
1=Minor	Thoracic skin contusion	Air bag-DR side

Occupant: 1997-43-14-2-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported	Alcohol
Presence	No ALCOHOL
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Toyota Corolla
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	10 L Y A W 2
Damage (C1-C6)	0 2 4 12 0 6
Crush (L and D)	278 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	ROLLOVER-OVERTURN

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	38.595356265
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PASSENGER Factors

Age	37	Height	158	Weight	53
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Rollover Characteristics

Number of Events	7
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 1
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

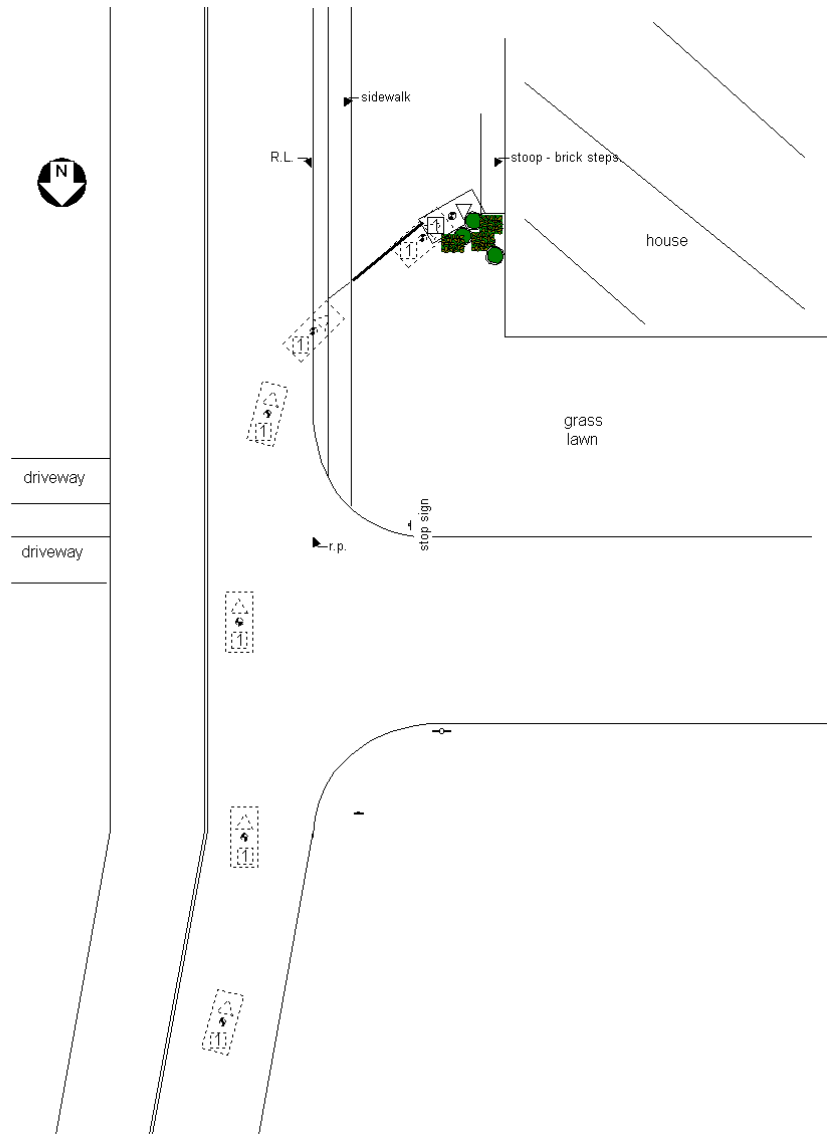
Occupant	1997-43-14-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	690202	Seat, back
1=Minor	690402	Seat, back
1=Minor	Upper extremity skin contusion	Air bag-PS side
1=Minor	Abdominal skin abrasion	Air bag-PS side
1=Minor	Abdominal skin contusion	Belt webb/buckle

33 Case 1997-43-202

Summary:

Vehicle one was traveling south in the right lane of a two lane roadway. Vehicle one travelled off the right side of the road. Vehicle one travelled southwest across a lawn. Vehicle one's right side sideswiped shrubbery located in front of the house. Vehicle one's front impacted the house. Vehicle one came to rest against the house facing southwest. Vehicle one's engine produced a small fire/smoke at the sight of impact. The driver of Vehicle one was hospitalized and then fatal eight days later.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mercury	Topaz	1994	1	72	FEMALE-NOT PREG	5=Critical

Occupant: 1997-43-202-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	46 -46 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F D E W 3
Damage (C1-C6)	0 15 33 52 60 56
Crush (L and D)	152 7
Object Contacted 1	BUILDING
Object Contacted 2	BUSH

NASS Weighting Factor

Weighting factor	38.595356265
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Topaz
Year	1994
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	117

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	72	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

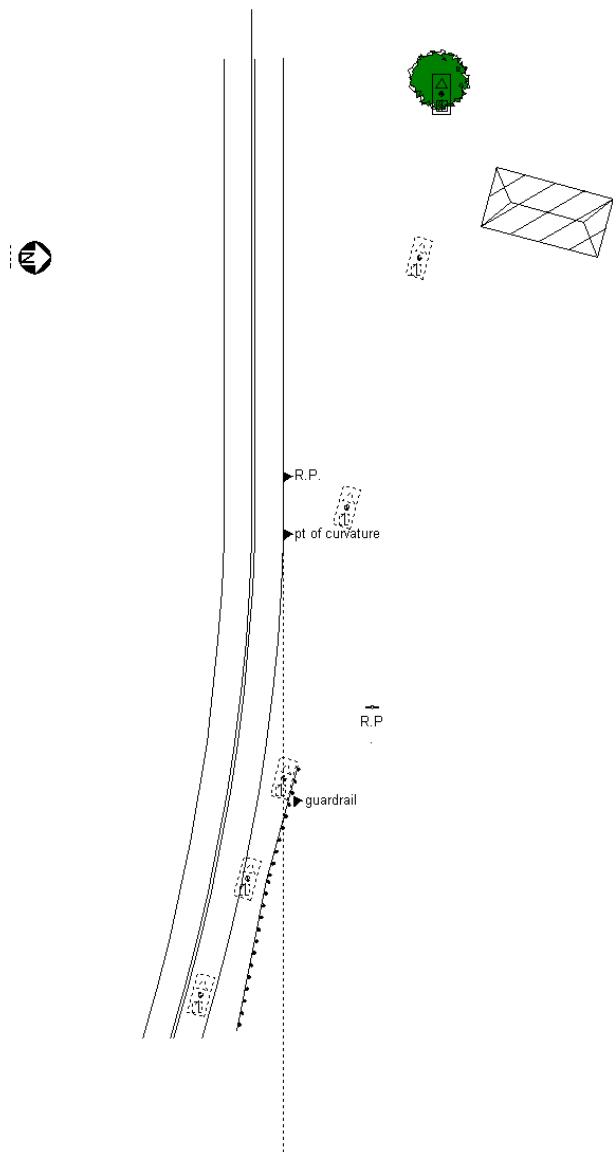
Occupant	1997-43-202-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Massive hepatic injury (>501=Minor	Adrenal gland contusion NFS
Steering rim		
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Steering rim
3=Serious	Hepatic contusion, major (EBL>203=Serious	Femoral shaft fracture
Center panel		
1=Minor	Thoracic skin contusion	Steering rim
1=Minor	Thoracic skin abrasion	Belt webb/buckle

34 Case 1997-43-208

Summary:

Vehicle one was traveling west in the right lane of a two lane roadway negotiating a curve to the left. Vehicle one travelled off the right side of the road, Vehicle sideswiped a north guardrail. Vehicle one travelled west across a lawn. Vehicle one's front impacted a tree. Vehicle one came to rest against the tree facing west. The driver of Vehicle one was fatal at the scene.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Chevrolet	Celebrity	1985	1	24	MALE	4=Severe

Occupant: 1997-43-208-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	19

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	1 F D A N 7
Damage (C1-C6)	164 242 238 175 0 0
Crush (L and D)	142 0
Object Contacted 1	LARGE TREE
Object Contacted 2	Other BARRIER

NASS Weighting Factor

Weighting factor	41.252971007
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Celebrity
Year	1985
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	186

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	24	Height	175	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

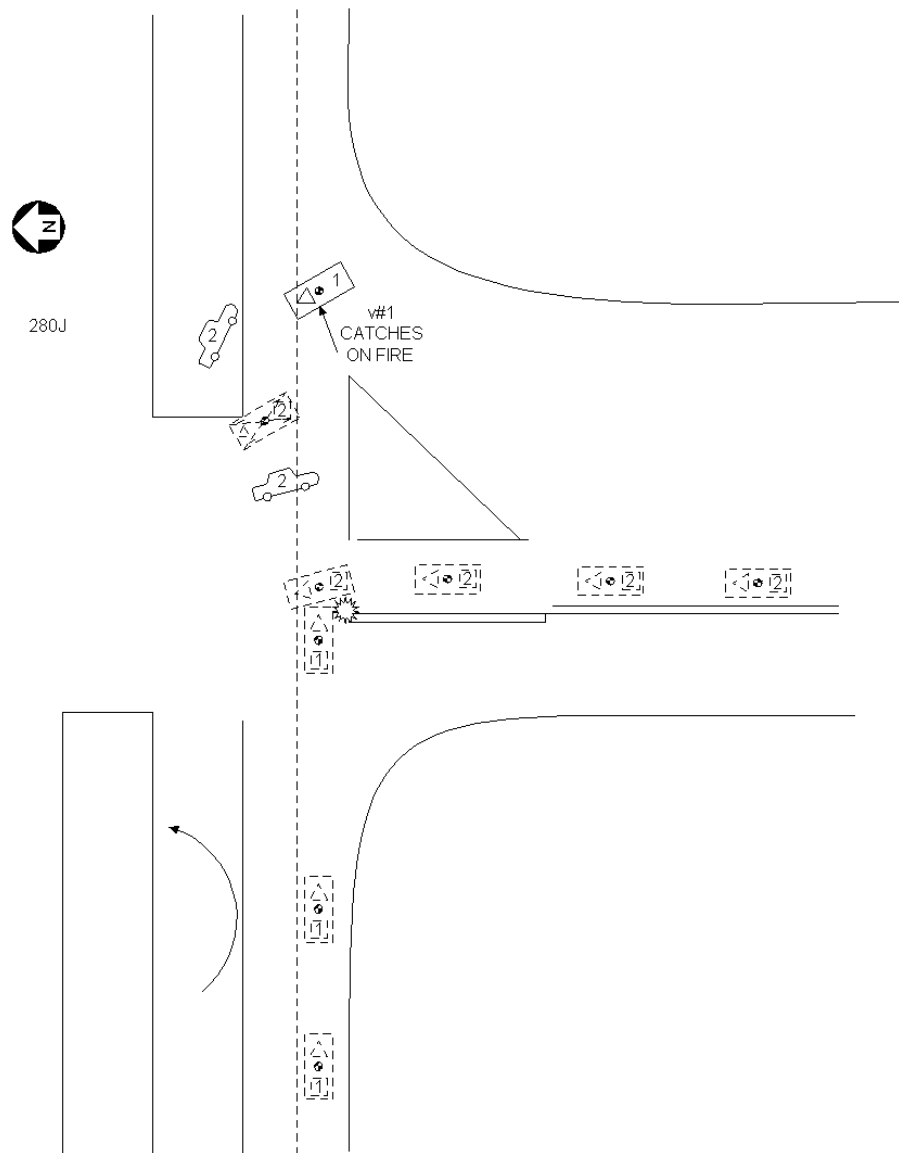
Occupant	1997-43-208-1-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Center panel
2=Moderate	Foot fracture NFS	Foot controls
1=Minor	Facial skin contusion	Steering rim
1=Minor	Facial skin abrasion	Steering rim
1=Minor	Facial skin abrasion	Steering rim
1=Minor	Neck skin abrasion	Steering rim
1=Minor	Thoracic skin abrasion	Steering comb
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Upper extremity skin contusion	Left apnel
1=Minor	690202	Seat, back
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Left apnel
4=Severe	Flail chest NFS	Steering comb

35 Case 1997-43-280

Summary:

VEHICLE ONE WAS TRAVELING EAST ON A FOUR LANE DIVIDED HIGHWAY ENTERING A INTERSECTION. VEHICLE TWO WAS TRAVELING NORTH ON A TWO LANE ROADWAY , ATTEMPTING A LEFT HAND TURN AT THE SAME INTERSECTION. VEHICLE ONE IMPACTED VEHICLE TWO'S LEFT PLANE WITH ITS FRONT PLANE. VEHICLE TWO THEN ROLLED RIGHT ONE QUARTER TURN. VEHICLE ONE CAME TO REST IN THE ROADWAY FACING NW. VEHICLE TWO CAME TO REST IN THE MEDIAN, ON ITS RIGHT PLANE, FACING WEST. THE DRIVER OF VEHICLE ONE RECEIVED AN A INJURY AND WAS TRANSPORTED AND HOSPITALIZED FOR 9 DAYS. THE DRIVER OF VEHICLE TWO RECEIVED AN A INJURY AND WAS TRANSPORTED AND HOSPITALIZED FOR 10 DAYS. THE PASSANGER OFV2 WAS TRANSPORTED AND RELEASED.



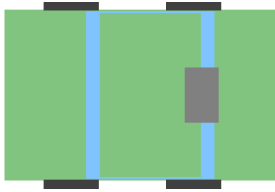
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Chevrolet	S-10	1986	1	37	MALE	4=Severe
2	COMPACT UTILITY	Jeep	Cherokee84-	1996	1	31	FEMALE-NOT PREG	3=Serious
2	COMPACT UTILITY	Jeep	Cherokee84-	1996	2	44	FEMALE-NOT PREG	2=Moderate

Occupant: 1997-43-280-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	50.94587027
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet S-10
Year	1986
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	37	Height	183	Weight	70
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-43-280-1-1
MAIS	4=Severe
Seat Position	Front left side

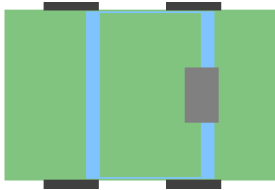
AIS Level	Injury Description	Contacts
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Unknown SOURCE
2=Moderate	Tibial fracture medial malleolus, open/displaced/comminuted	Unknown SOURCE
4=Severe	Unconscious on admission, moves appropriately only to pain	Unknown SOURCE
1=Minor	Ankle joint sprain	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Upper extremity skin laceration, minor	Unknown SOURCE
1=Minor	Thoracic skin contusion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Leg skin laceration NFS	Unknown SOURCE
1=Minor	Leg skin laceration NFS	Unknown SOURCE
3=Serious	Cerebral subarachnoid hemorrhage	Unknown SOURCE
4=Severe	Cerebral intraventricular hemorrhage	Unknown SOURCE

Occupant: 1997-43-280-2-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	50.94587027
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object	VEHICLE NO. 1
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1996
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	168

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	IN CROSSOVER
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	31	Height	0	Weight	0
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-43-280-2-1
MAIS	3=Serious
Seat Position	Front left side

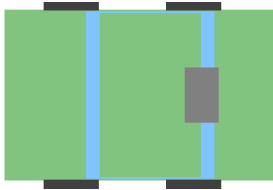
AIS Level	Injury Description	Contacts
3=Serious	Pelvic fracture, open/displaced/comm	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
2=Moderate	Orbit fracture, closed	Unknown SOURCE
2=Moderate	Lumbar fracture of transverse process without cord injury	Unknown SOURCE
2=Moderate	Pelvic fracture, closed	Unknown SOURCE
3=Serious	Hepatic laceration, moderate (>3cms deep, EBL>202=	Colonic laceration NFS
Unknown	SOURCE	

Occupant: 1997-43-280-2-2



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	50.94587027
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object	VEHICLE NO. 1
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	SIDE PLANE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1996
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	168

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	IN CROSSOVER
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	44	Height	0	Weight	0
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

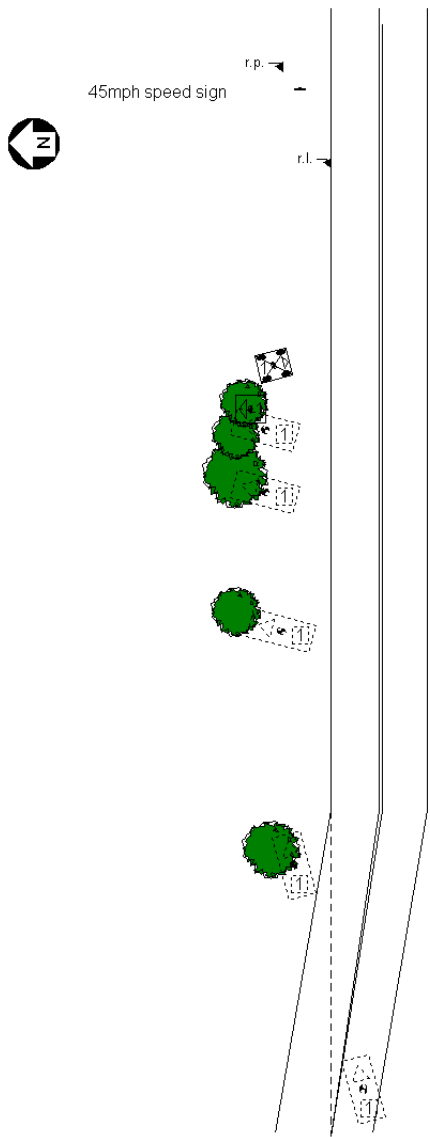
Occupant	1997-43-280-2-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Zygoma fracture	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Arm skin avulsion, superficial (<25cms ² hand or <100cms ² arm	Unknown SOURCE

36 Case 1997-43-62

Summary:

Vehicle one was traveling east on a two lane undivided roadway negotiating a curve to the left . Vehicle one travelled off the left side of the road. Vehicle one impacted five trees. Vehicle one rolled over. Vehicle one caught on fire. Vehicle one came to rest on the left side of the road facing south in a ditch.



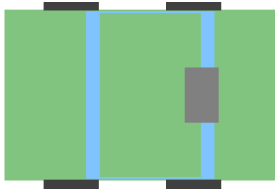
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Ford	Mustang/Mustang II	1983	1	25	MALE	3=Serious

Occupant: 1997-43-62-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	41.252971007
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Rollover Characteristics

Number of Events	7
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	15

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1983
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	122

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	25	Height	175	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

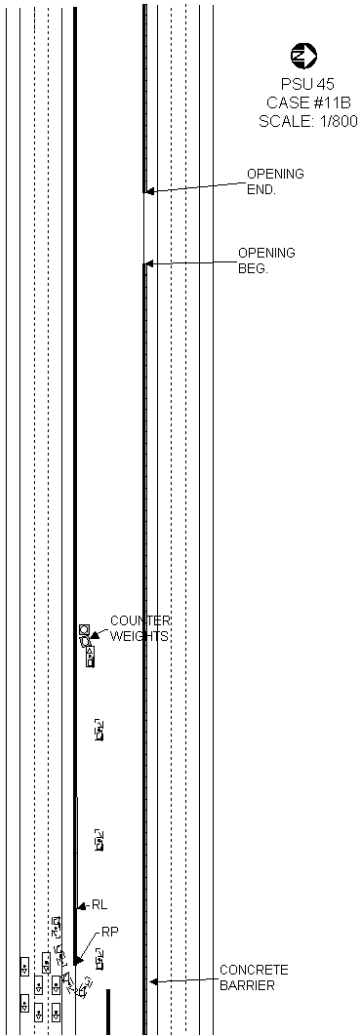
Occupant	1997-43-62-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femur fracture NFS	Steering rim
2=Moderate	851605	Left apnel
2=Moderate	Tibial fracture NFS	Left apnel
2=Moderate	Maxillary fracture NFS	Steering rim
1=Minor	Mandible fracture NFS	Steering rim
1=Minor	Upper extremity skin contusion	Center panel
1=Minor	Upper extremity skin abrasion	Center panel
1=Minor	Upper extremity skin laceration, minor	Windshield
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Leg skin abrasion	Steering rim
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Teeth avulsion	Steering rim
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Facial skin contusion	Steering rim
1=Minor	Facial skin abrasion	Steering rim

37 Case 1997-45-11

Summary:

V1 was traveling east bound in the left most lane in dry, dark conditions on a three lane interstate. Traffic was at a stand still and V1 tried to avoid the traffic and traveled on the left side shoulder and turned 180 degrees through an opening in the middle of the interstate. Note this area is only temporary due to heavy construction. V1 proceeded west bound through the barriers, which are lining the edge of the interstate on both sides. V1 traveled some 67 meters before contacting a crane counter weight head-on. The approximate weight of the counter weight is 18144 kg. After impact V1 caught fire in the engine compartment and came to rest at impact facing west.



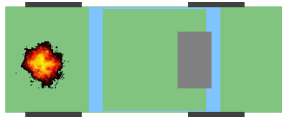
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Camry	1984	1	22	MALE	6=Maximum

Occupant: 1997-45-11-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	12 F D E W 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	Other EVENT
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	61.282405819
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Camry
Year	1984
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	106

Pre-Crash Driver Data

Accident Type	12
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	REMAIN OFF ROAD

DRIVER Factors

Age	22	Height	188	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

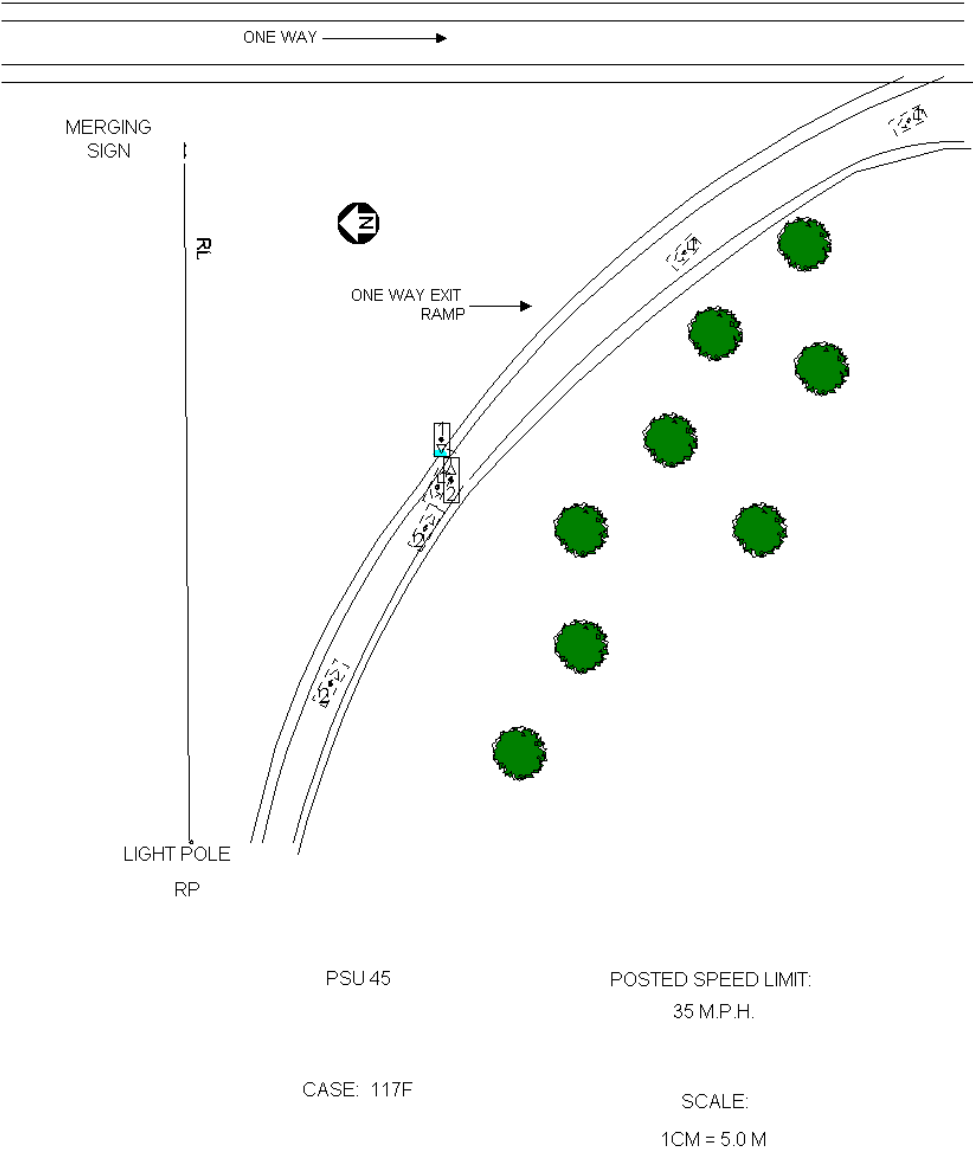
Occupant	1997-45-11-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Skull fracture, NFS	Unknown SOURCE
6=Maximum	Burn, 2nd or 3rd degree, >90	

38 Case 1997-45-117

Summary:

VEHICLE #1 ENTERED AN INTERSTATE CONNECTOR ROADWAY GOING NORTH THAT INTERSECTS WITH AN INTERSTATE EXIT RAMP. VEHICLE #1 WAS TRAVELING THE WRONG WAY ON A ONE WAY ROADWAY. VEHICLE #2 WAS TRAVELING SOUTH ON THE INTERSTATE EXIT RAMP TRAVELING IN THE PROPER DIRECTION. THE RAMP IS IN THE DOWNTOWN AREA, BUT IS SHELTERED ON BOTH SIDES OF THE ROADWAY BY TREES AND SHRUBS THAT LIMIT SIGHT. THE VEHICLES STRUCK EACH OTHER FRONT TO FRONT (HEAD-ON) IN THE MIDDLE OF THE EXIT RAMP. VEHICLE #1 CAME TO REST FACING WEST AND VEHICLE #2 CAME TO REST FACING EAST.



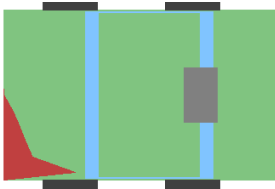
Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Toyota	Celica	1974	1	71	MALE	4=Severe
1	3DR/2DR HATCHBAK	Toyota	Celica	1974	2	54	FEMALE-NOT PREG	3=Serious
1	3DR/2DR HATCHBAK	Toyota	Celica	1974	3	3	MALE	1=Minor
2	LARGE VAN	Chevrolet	G-series Van	1984	1	55	MALE	1=Minor

Occupant: 1997-45-117-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, on the rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -45 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F L E N 5
Damage (C1-C6)	105 43 33 24 14 2
Crush (L and D)	136 -49
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	970.47529564
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Celica
Year	1974
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	110

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	71	Height	170	Weight	58
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-117-1-1
MAIS	4=Severe
Seat Position	Front left side

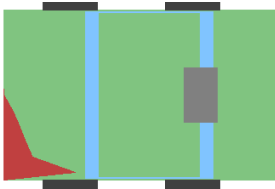
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Left interior
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Thoracic skin abrasion	Steering comb
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin abrasion	Left apnel
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Steering comb
1=Minor	Scalp contusion	Left apnel
4=Severe	Cerebral intraventricular hemorrhage	Steering comb
2=Moderate	Fibular fracture, bimalleolar or trimalleolar	Foot controls
2=Moderate	Metatarsal or tarsal fracture	Foot controls
1=Minor	Abdominal skin contusion	Steering comb
2=Moderate	Lethargic on admission, unconscious (length NFS)	Left apnel

Occupant: 1997-45-117-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, on the rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -45 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F L E N 5
Damage (C1-C6)	105 43 33 24 14 2
Crush (L and D)	136 -49
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	970.47529564
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Celica
Year	1974
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	110

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	54	Height	170	Weight	66
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-117-1-2
MAIS	3=Serious
Seat Position	Front right side

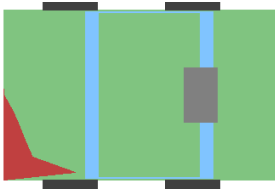
AIS Level	Injury Description	Contacts
2=Moderate	Thoracic vertebral body fracture, minor (<203=Serious	Lumbar fracture of vertebral body (>202=Moderate
Clavicle fracture	Right panel	
1=Minor	Leg skin abrasion	Right panel
1=Minor	Upper extremity skin abrasion	Right panel

Occupant: 1997-45-117-1-3



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, on the rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	45 -45 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F L E N 5
Damage (C1-C6)	105 43 33 24 14 2
Crush (L and D)	136 -49
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	970.47529564
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Celica
Year	1974
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	110

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	3	Height	0	Weight	18
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-117-1-3
MAIS	1=Minor
Seat Position	Second right

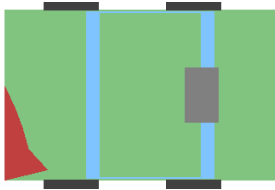
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Seat, back

Occupant: 1997-45-117-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	29 -29 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 9
Damage (C1-C6)	63 35 27 15 0 0
Crush (L and D)	184 1
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	970.47529564
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet G-series Van
Year	1984
Class	TRUCK
Body Type	LARGE VAN
Weight	179

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	55	Height	165	Weight	100
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

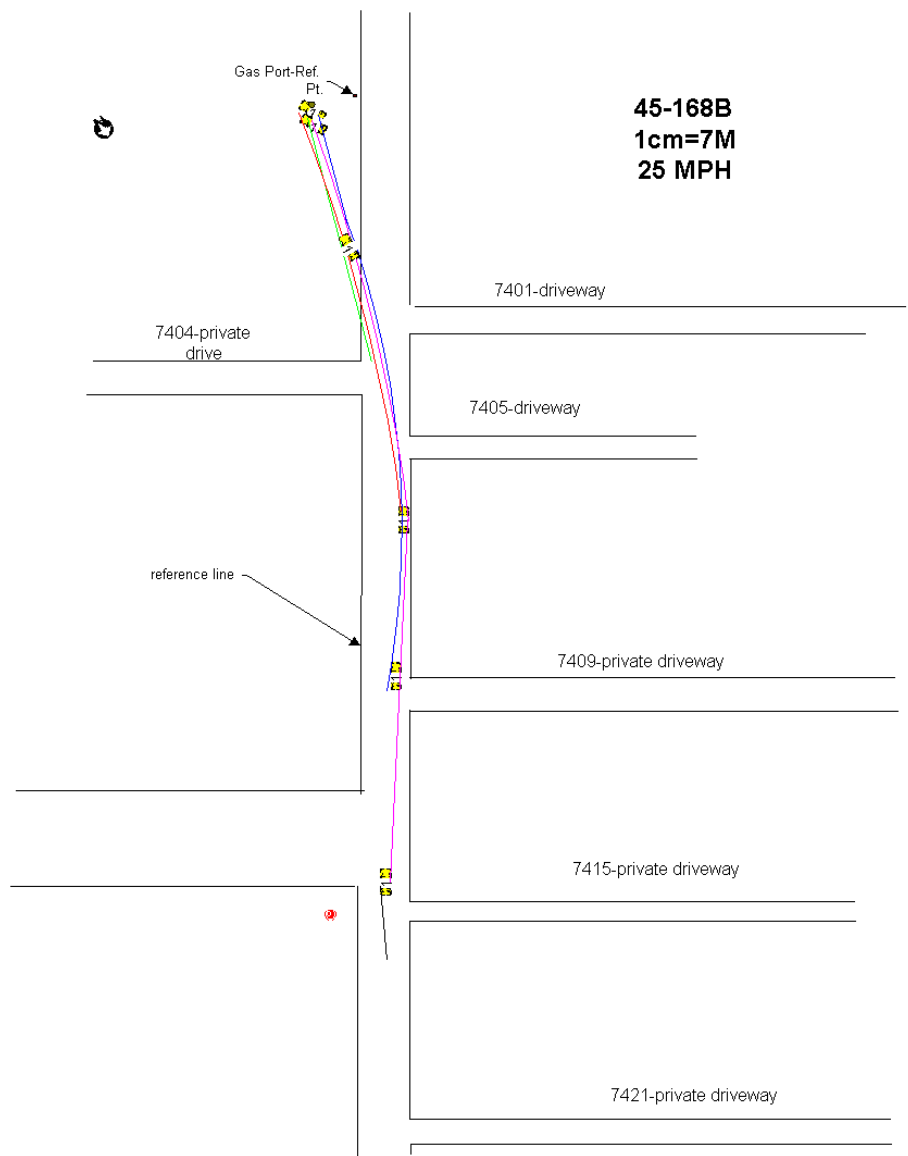
Occupant	1997-45-117-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Steering rim
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel

39 Case 1997-45-168

Summary:

V1 WAS TRAVELING WEST ON A TWO LANE, RURAL, RESIDENTIAL ROADWAY IN DRY, DARK CONDCTIONS. V1 CAME ACROSS A STEEP HILL AND BEGAN TO GO DOWN A STEEP DOWNHILL GRADE. THE DRIVER LOST CONTROL AND BEGAN TO ROTATE, DEPARTING THE LEFT SIDE OF THE ROAD. V1 STRUCK A LARGE TREE WITH ITS BACK.



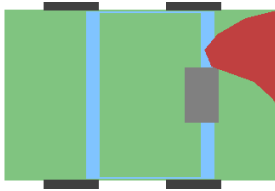
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Eagle	Talon	1991	1	16	MALE	1=Minor
1	3DR/2DR HATCHBAK	Eagle	Talon	1991	2	16	MALE	1=Minor
1	3DR/2DR HATCHBAK	Eagle	Talon	1991	3	15	MALE	2=Moderate

Occupant: 1997-45-168-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Eagle Talon
Year	1991
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	135

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 51 -9
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z A W 4
Damage (C1-C6)	7 33 96 106 87 46
Crush (L and D)	140 25
Object Contacted 1	LARGE TREE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	94.667174897
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	16	Height	183	Weight	70
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-168-1-1
MAIS	1=Minor
Seat Position	Front left side

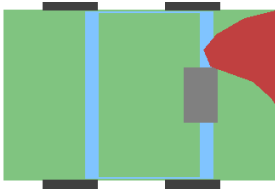
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Flying glass
1=Minor	Awake on admission, never unconscious	Seat, back
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin laceration NFS	Flying glass
1=Minor	Leg skin contusion (hematoma)	Steering rim

Occupant: 1997-45-168-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Eagle Talon
Year	1991
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	135

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 51 -9
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z A W 4
Damage (C1-C6)	7 33 96 106 87 46
Crush (L and D)	140 25
Object Contacted 1	LARGE TREE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	94.667174897
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PASSENGER Factors

Age	16	Height	180	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-168-1-2
MAIS	1=Minor
Seat Position	Front right side

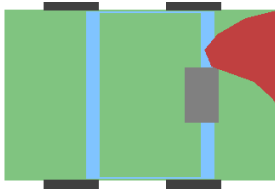
AIS Level	Injury Description	Contacts
1=Minor	690202	Seat, back
1=Minor	Leg skin contusion (hematoma)	Right panel

Occupant: 1997-45-168-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Eagle Talon
Year	1991
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	135

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	52 51 -9
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z A W 4
Damage (C1-C6)	7 33 96 106 87 46
Crush (L and D)	140 25
Object Contacted 1	LARGE TREE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	94.667174897
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PASSENGER Factors

Age	15	Height	190	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

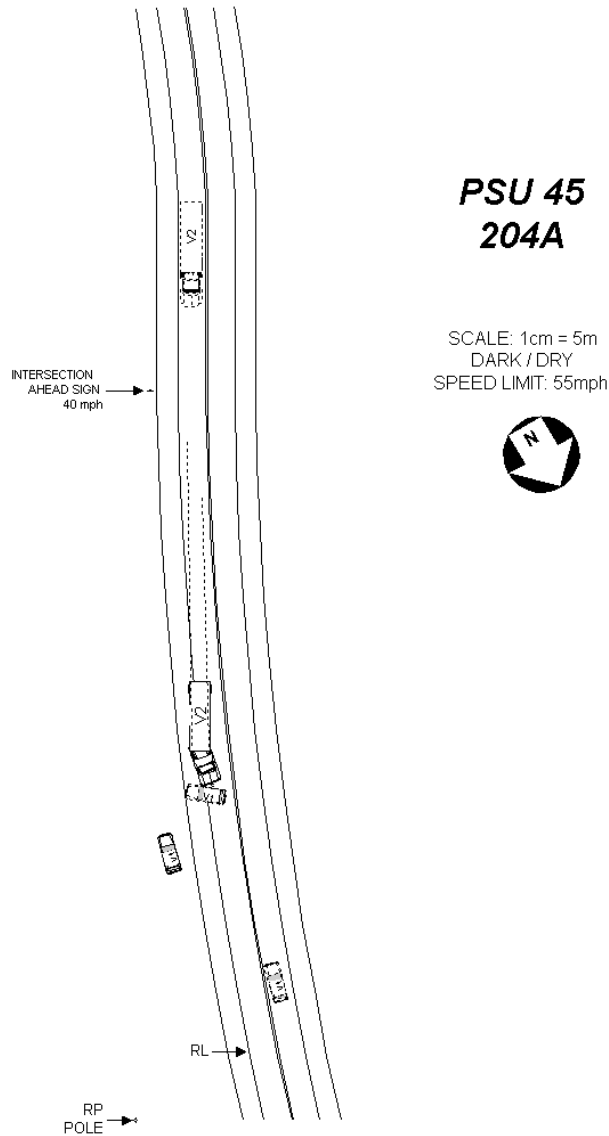
Occupant	1997-45-168-1-3
MAIS	2=Moderate
Seat Position	Second right

AIS Level	Injury Description	Contacts
2=Moderate	Mandible fracture, open/displaced/comminuted, location NFS	Other rear obj

40 Case 1997-45-204

Summary:

V1 WAS SOUTHBOUND ON A TWO LANE, RURAL HIGHWAY IN DRY, DARK CONDITIONS. V2 (NON-CDS TRACTOR-TRAILER) WAS NORTHBOUND ON THE SAME HIGHWAY. V1 CROSSED OVER INTO THE NORTHBOUND LANE AND V1'S RIGHT SIDE WAS STRUCK BY V2'S FRONT. AFTER IMPACT, V1 ROTATED CLOCKWISE AND CAME TO REST OFF THE EAST SIDE OF THE ROAD FACING SOUTH. V2 CAME TO REST NEAR IMPACT.



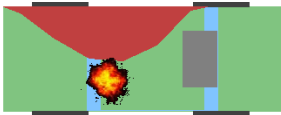
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Saturn	SL	1996	1	26	MALE	7=Unk. sev.

Occupant: 1997-45-204-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Instrument panel
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	3 R D A W 7
Damage (C1-C6)	10 51 83 87 61 5
Crush (L and D)	330 -42
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.254699682
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Saturn SL
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	106

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	26	Height	175	Weight	100
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

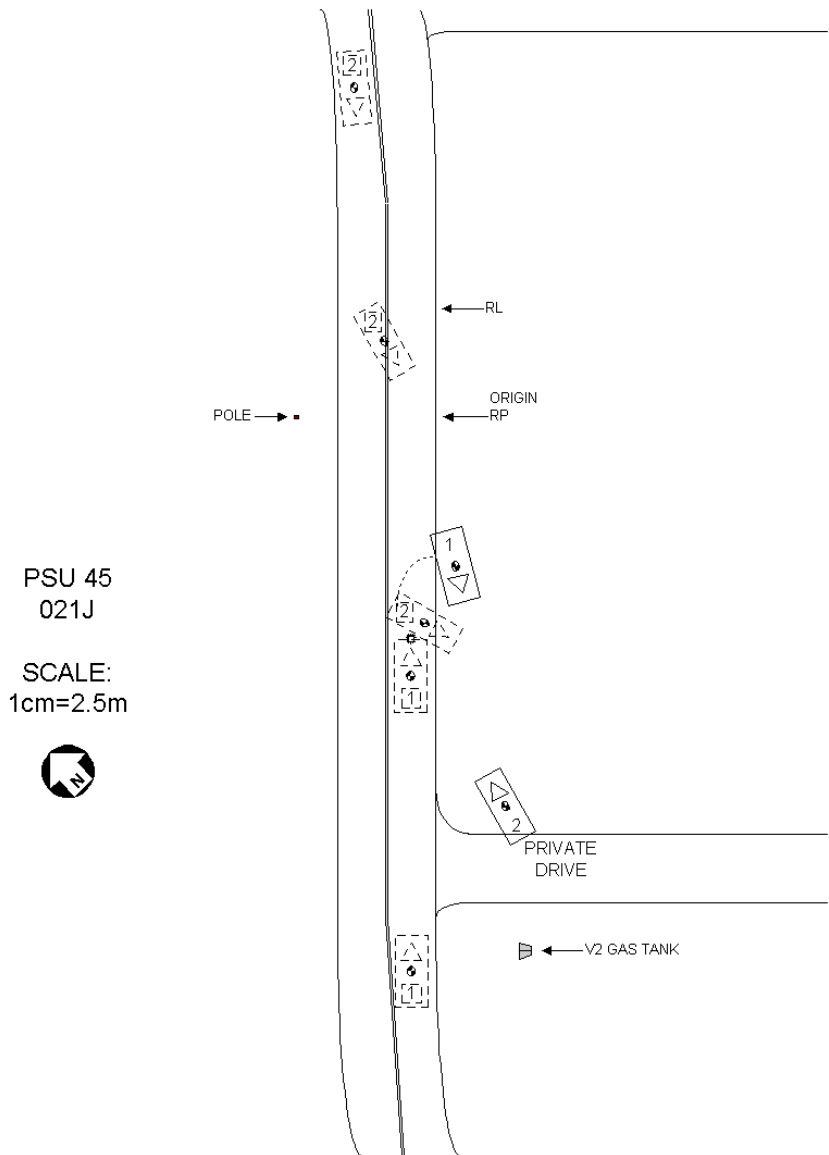
Occupant	1997-45-204-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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41 Case 1997-45-21

Summary:

V1 WAS TRAVELING NORTH ON A TWO LANE, RURAL ROADWAY IN WET CONDITIONS. V2 WAS TRAVELING SOUTH ON THE SAME ROADWAY. AS V2 EXITED A CURVE TO THE RIGHT, THE DRIVER APPARENTLY LOST CONTROL AND BEGAN TO SLIDE ON THE WET ROAD. V2 CROSSED OVER INTO THE NORTHBOUND LANE AND STRUCK V1'S FRONT WITH ITS RIGHT SIDE. AFTER IMPACT, V1 ROTATED CLOCKWISE AND CAME TO REST OFF THE EAST SIDE OF THE ROAD FACING SOUTH. AFTER IMPACT, V2 ROTATED CLOCKWISE AND CAME TO REST FACING NORTH OFF THE EAST SIDE OF THE ROAD. THE IMPACT CAUSED THE GAS TANK OF V2 TO BECOME DETACHED FROM THE VEHICLE. THE GAS TANK CAME TO REST 12m SOUTH OF V2.



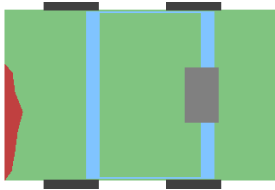
Vehicle #	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant ais
1	LARGE VAN	Chevrolet	G-series Van	1979	1	31	FEMALE-NOT PREG	1=Minor
1	LARGE VAN	Chevrolet	G-series Van	1979	2	43	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Saturn	SL	1995	1	20	FEMALE-NOT PREG	3=Serious

Occupant: 1997-45-21-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -17 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 3
Damage (C1-C6)	11 16 19 27 16 12
Crush (L and D)	172 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	53.770232258
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet G-series Van
Year	1979
Class	TRUCK
Body Type	LARGE VAN
Weight	166

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	31	Height	163	Weight	70
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-21-1-1
MAIS	1=Minor
Seat Position	Front left side

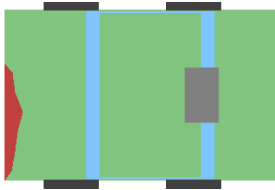
AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin contusion	Steering rim
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Scalp contusion	Int loose obj
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact
1=Minor	Upper extremity skin contusion	Steering rim

Occupant: 1997-45-21-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	19 -17 10
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 3
Damage (C1-C6)	11 16 19 27 16 12
Crush (L and D)	172 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	53.770232258
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet G-series Van
Year	1979
Class	TRUCK
Body Type	LARGE VAN
Weight	166

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	43	Height	175	Weight	109
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	1997-45-21-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	2-3 rib fractures with stable chest	Right panel
1=Minor	Upper extremity skin contusion	Right panel
1=Minor	Leg skin contusion (hematoma)	Right panel
1=Minor	Leg skin laceration NFS	Right panel
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact
1=Minor	Upper extremity skin contusion	Right panel

Occupant: 1997-45-21-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Saturn SL
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	105

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	36 -18 -31
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z A W 4
Damage (C1-C6)	23 33 41 44 16 0
Crush (L and D)	188 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	53.770232258
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	20	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

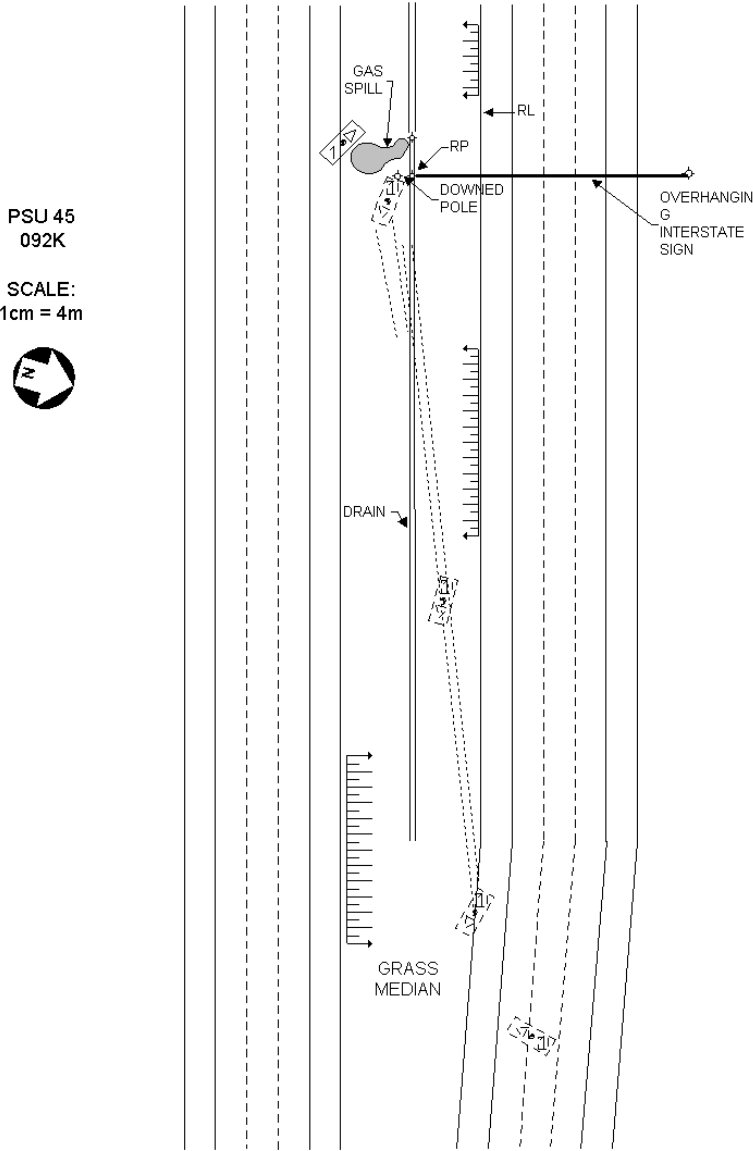
Occupant	1997-45-21-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin abrasion	Belt webb/buckle
1=Minor	Upper extremity skin abrasion	Steering rim
1=Minor	Leg skin abrasion	Transmiss lever
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
2=Moderate	Lumbar fracture of transverse process without cord injury	Seat, back
3=Serious	Humeral fracture with radial nerve involvement	Left interior
3=Serious	Pelvic fracture, open/displaced/comminuted	Transmiss lever
3=Serious	Pelvic fracture, open/displaced/comminuted	Transmiss lever

42 Case 1997-45-92

Summary:

V1 WAS TRAVELING WEST ON A URBAN INTERSTATE WITH THREE WESTBOUND LANES AND THREE EASTBOUND LANES WITH SHOULDERS AND A WIDE GRASS MEDIAN DIVIDER. CONDITIONS WERE WET, WITH HEAVY RAIN IN THE OVERNIGHT HOURS. THE DRIVER OF V1 LOST CONTROL IN THE WET CONDITIONS AND BEGAN TO SPIN COUNTERCLOCKWISE. THE VEHICLE DEPARTED THE LEFT SIDE OF THE ROAD AND WENT INTO THE GRASS MEDIAN. V1 WAS SLIDING BACKWARDS IN THE MEDIAN WHEN IT STRUCK AND DOWNED A METAL UTILITY POLE WITH ITS BACK.



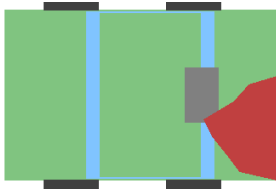
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1993	25	FEMALE-NOT PREG	2=Moderate
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1993	59	FEMALE-NOT PREG	1=Minor
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1993	5	MALE	4=Severe
1	3DR/2DR HATCHBAK	Ford	Mustang/Mustang II	1993	3	FEMALE-NOT PREG	2=Moderate

Occupant: 1997-45-92-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1993
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	126

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	5 B Y E W 6
Damage (C1-C6)	55 73 95 107 63 41
Crush (L and D)	154 -22
Object Contacted 1	BREAKAWAY POLE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	41.118978549
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DRIVER Factors

Age	25	Height	155	Weight	56
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-92-1-1
MAIS	2=Moderate
Seat Position	Front left side

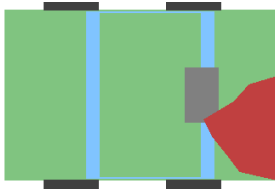
AIS Level	Injury Description	Contacts
2=Moderate	Lumbar fracture of vertebral body NFS, without cord injury	Seat, back
1=Minor	Scalp laceration, minor	Roof

Occupant: 1997-45-92-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1993
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	126

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	5 B Y E W 6
Damage (C1-C6)	55 73 95 107 63 41
Crush (L and D)	154 -22
Object Contacted 1	BREAKAWAY POLE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	41.118978549
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	59	Height	152	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-92-1-2
MAIS	1=Minor
Seat Position	Front right side

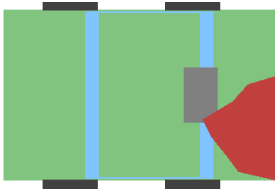
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Transmiss lever
1=Minor	Thoracic skin contusion	Transmiss lever

Occupant: 1997-45-92-1-3



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1993
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	126

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	5 B Y E W 6
Damage (C1-C6)	55 73 95 107 63 41
Crush (L and D)	154 -22
Object Contacted 1	BREAKAWAY POLE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	41.118978549
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PASSENGER Factors

Age	5	Height	0	Weight	23
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-92-1-3
MAIS	4=Severe
Seat Position	Second left

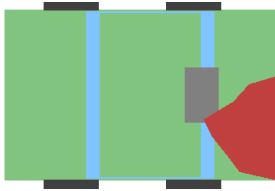
AIS Level	Injury Description	Contacts
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Seat, back
4=Severe	Unconscious on admission, moves appropriately only to pain	Seat, back
1=Minor	297402	Seat, back
1=Minor	297402	Seat, back
4=Severe	Cerebral intraventricular hemorrhage	Seat, back
3=Serious	Cerebral contusions, multiple, bilateral, small	Seat, back
2=Moderate	Splenic laceration NFS	Belt webb/buckle
2=Moderate	Splenic contusion, minor (<503=Serious	Cerebral pneumocephalus
Seat, back		
3=Serious	Basilar skull fracture, NFS	Seat, back
2=Moderate	Kidney laceration NFS	Left interior
1=Minor	Facial skin laceration NFS	Flying glass
1=Minor	Nose fracture NFS	Seat, back
1=Minor	Single rib fracture	Left interior
4=Severe	Lung contusion, bilateral	Seat, back
1=Minor	Neck skin abrasion	Belt webb/buckle

Occupant: 1997-45-92-1-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Mustang/Mustang II
Year	1993
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	126

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	5 B Y E W 6
Damage (C1-C6)	55 73 95 107 63 41
Crush (L and D)	154 -22
Object Contacted 1	BREAKAWAY POLE
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	41.118978549
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	3	Height	0	Weight	14
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

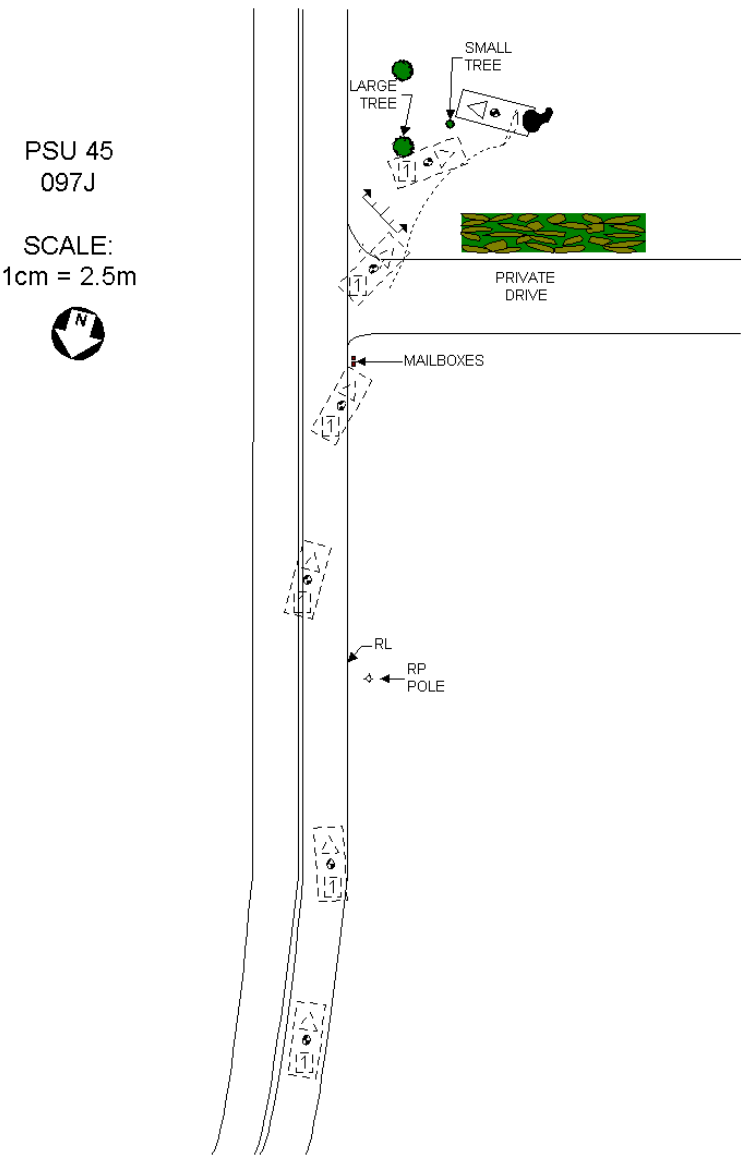
Occupant	1997-45-92-1-4
MAIS	2=Moderate
Seat Position	Second right

AIS Level	Injury Description	Contacts
2=Moderate	Pelvic fracture NFS	Belt webb/buckle
2=Moderate	Pelvic fracture NFS	Belt webb/buckle
1=Minor	Facial skin contusion	Seat, back
1=Minor	297402	Seat, back

43 Case 1997-45-97

Summary:

V1 WAS TRAVELING SOUTH ON A TWO LANE RURAL ROADWAY IN DRY, DARK CONDITIONS. AS V1 CAME ACROSS A HILL THAT CURVES TO THE LEFT AT A HIGH RATE OF SPEED, V1 BEGAN TO ROTATE CLOCKWISE DUE TO MUD AND GRAVEL IN THE ROADWAY FROM A NEARBY CONSTRUCTION SITE. THE VEHICLE DEPARTED THE RIGHT SIDE OF THE ROADWAY, STRIKING TWO MAILBOXES WITH ITS FRONT. THE VEHICLE CONTINUED ROTATING CLOCKWISE AND STRUCK A LARGE TREE AND A SMALL TREE WITH ITS LEFT SIDE, RESPECTIVELY. AFTER THE IMPACTS, THE VEHICLE ROTATED COUNTER CLOCKWISE AND CAME TO REST FACING WEST.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Honda	Prelude	1997	1	19	FEMALE-NOT PREG	2=Moderate
1	2DR SEDAN/HT/CPE	Honda	Prelude	1997	2	19	MALE	3=Serious

Occupant: 1997-45-97-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Prelude
Year	1997
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	134

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	10 -5 8
Est. δV with sequence number	DELTA V CODED 2
CDC	10 L Z A W 3
Damage (C1-C6)	0 14 23 8 3 0
Crush (L and D)	123 -147
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	38.458816099
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DRIVER Factors

Age	19	Height	158	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-45-97-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Other occupants
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Acute cervical spine strain without fracture or dislocation	Other occupants
1=Minor	Lumbar spine acute strain without fracture or dislocation	Other noncontact
2=Moderate	Clavicle fracture	Other occupants

Occupant: 1997-45-97-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Prelude
Year	1997
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	134

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	10 -5 8
Est. δV with sequence number	DELTA V CODED 2
CDC	10 L Z A W 3
Damage (C1-C6)	0 14 23 8 3 0
Crush (L and D)	123 -147
Object Contacted 1	LARGE TREE
Object Contacted 2	LARGE TREE

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	38.458816099
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PASSENGER Factors

Age	19	Height	173	Weight	95
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

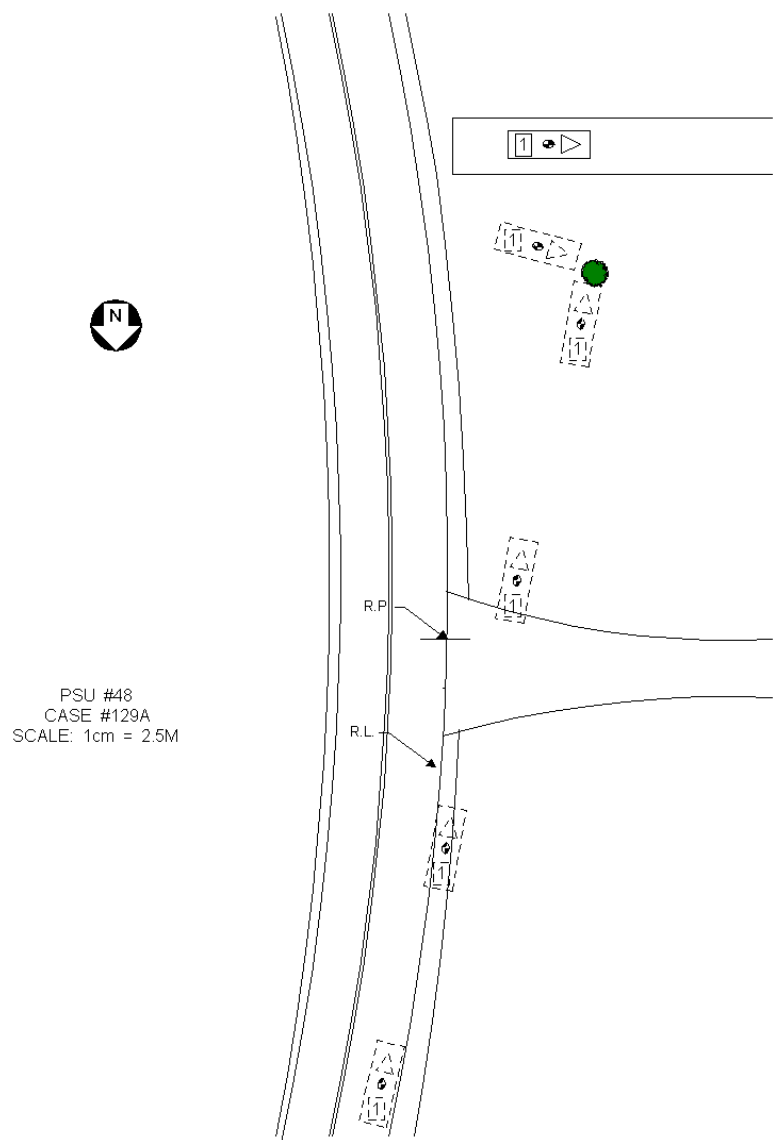
Injuries

Occupant	1997-45-97-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Other occupants
1=Minor	Upper extremity skin abrasion	Seat, back
1=Minor	Leg skin contusion (hematoma)	Right panel
2=Moderate	Clavicle fracture	Oth interior obj
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Oth interior obj
2=Moderate	Splenic laceration NFS	Seat, back
3=Serious	Cerebral contusions, multiple, bilateral, small	Other occupants
2=Moderate	Lethargic on admission, NFS	Other occupants

44 Case 1997-48-129

Summary:
V1 WAS SOUTHBOUND ON A TWO-LANE COUNTY ROADWAY THAT CURVED TO THE LEFT. V1 TRAVELED OFF THE RIGHT SIDE OF THE ROAD AND STRUCK A LARGE TREE WITH ITS FRONTAL PLANE. V1 ROTATED CLOCKWISE VERY RAPIDLY AND SLID INTO A DITCH RUNNING EAST/WEST. V1 CAUGHT FIRE IN THE ENGINE COMPARTMENT AND BURNED COMPLETELY. THE DRIVER OF V1 WAS FATALY INJURED AND TRANSPORTED TO THE MEDICAL EXAMINER'S OFFICE. V1 WAS TOWED FROM THE SCENE.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Mazda	Pickup	1997	1	35	MALE	6=Maximum

Occupant: 1997-48-129-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	71 -70 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	72 F D E W 5
Damage (C1-C6)	0 24 50 76 98 103
Crush (L and D)	160 43
Object Contacted 1	LARGE TREE
Object Contacted 2	DITCH/CULVERT

NASS Weighting Factor

Weighting factor	298.29110947
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mazda Pickup
Year	1997
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	152

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	35	Height	175	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

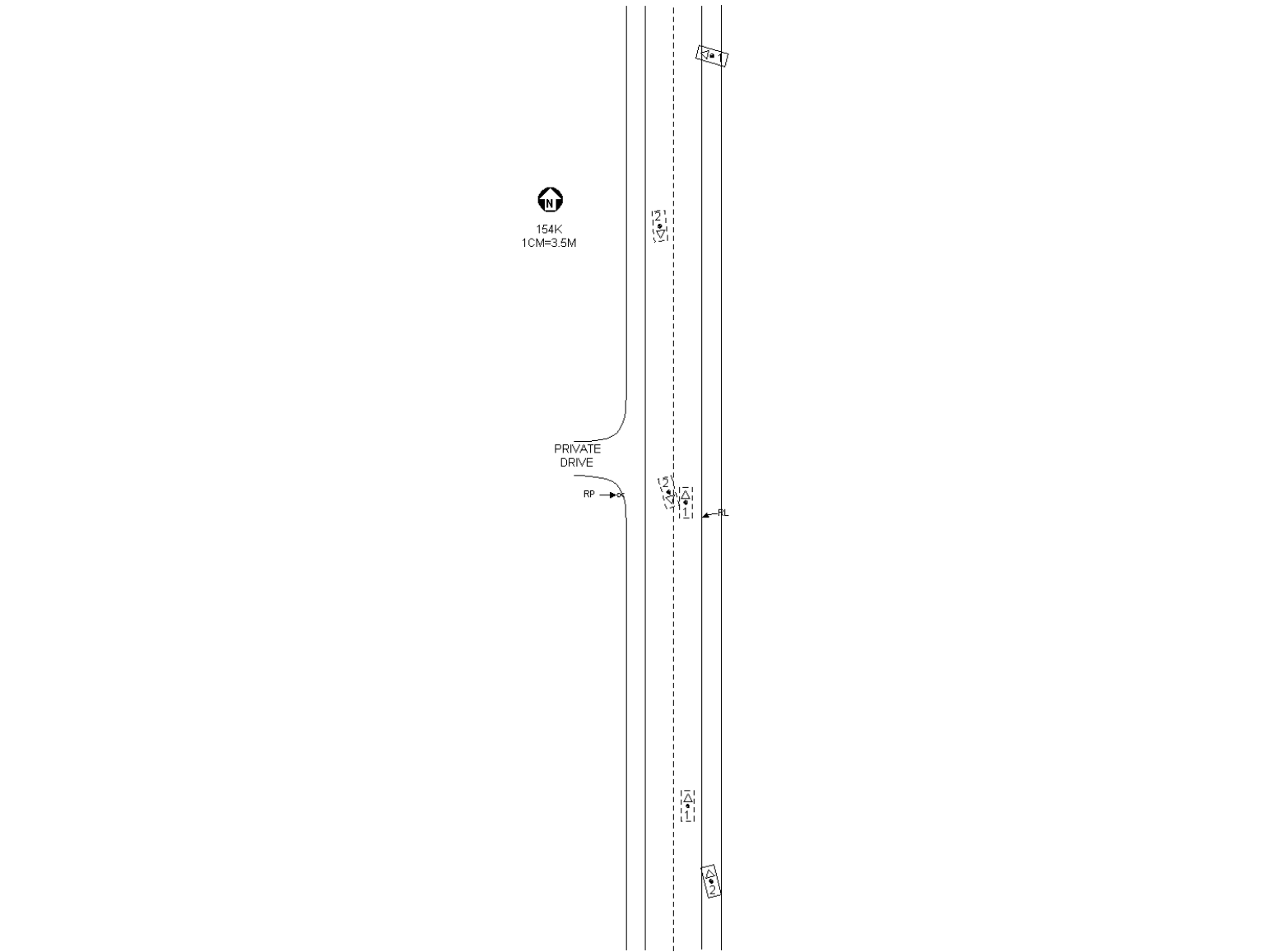
Occupant	1997-48-129-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >904=Severe	Inhalation injury, moderate (CO level 20-40 mg)

45 Case 1997-48-154

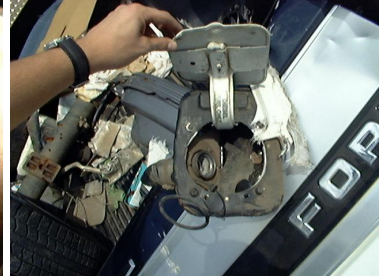
Summary:

V1 WAS NORTHBOUND ON A TWO LANE UNDIVIDED COUNTY ROAD IN THE RIGHT LANE. V2 WAS SOUTHBOUND ON THE SAME COUNTY ROAD. THE LEFT OF V1 CONTACTED THE FRONT OF V2. V2 ROTATED CCW AND CAME TO REST ON THE EAST SIDE OF THE ROADWAY FACING NORTH. V1 ROTATED CCW AND CAME TO REST ON THE EAST SIDE OF THE ROAD FACING WEST. THE DRIVER OF V1 WAS TRANSPORTED AND RELEASED FROM A LOCAL TRAUMA CENTER. THE DRIVER OF V2 WAS TRANSPORTED AND HOSPITALIZED. BOTH VEHICLES WERE TOWED DUE TO DISABLING DAMAGE.



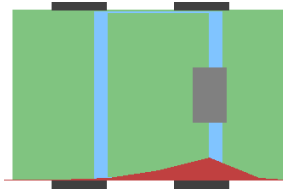
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1993	1	50	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Pontiac	Grand AM	1990	1	18	MALE	3=Serious

Occupant: 1997-48-154-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Diesel



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1993
Class	TRUCK
Body Type	LARGE PICKUP
Weight	227

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	11 L D E W 3
Damage (C1-C6)	0 0 3 14 33 3
Crush (L and D)	442 -53
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	487.45651293
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DRIVER Factors

Rollover Characteristics		Age	50	Height	0	Weight	0
		Gender			MALE		
		Ejection			No EJECTION		
		Ejection Area			No EJECTION		
		Entrapment			Not ENTRAPPED		
Number of Events	1						
Rollover Initiation Type	No rollover						
Location of Rollover Initiation	No rollover						
Rollover Initiation Object Contacted	No rollover						
Location on Vehicle where Principal Tripping Force was Applied	No rollover						
Direction of Initial Roll	No rollover						

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-48-154-1-1
MAIS	1=Minor
Seat Position	Front left side

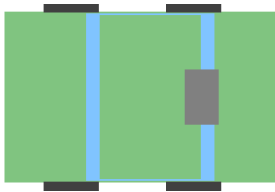
AIS Level	Injury Description	Contacts
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE

Occupant: 1997-48-154-2-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	487.45651293
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1990
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	116

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	18	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

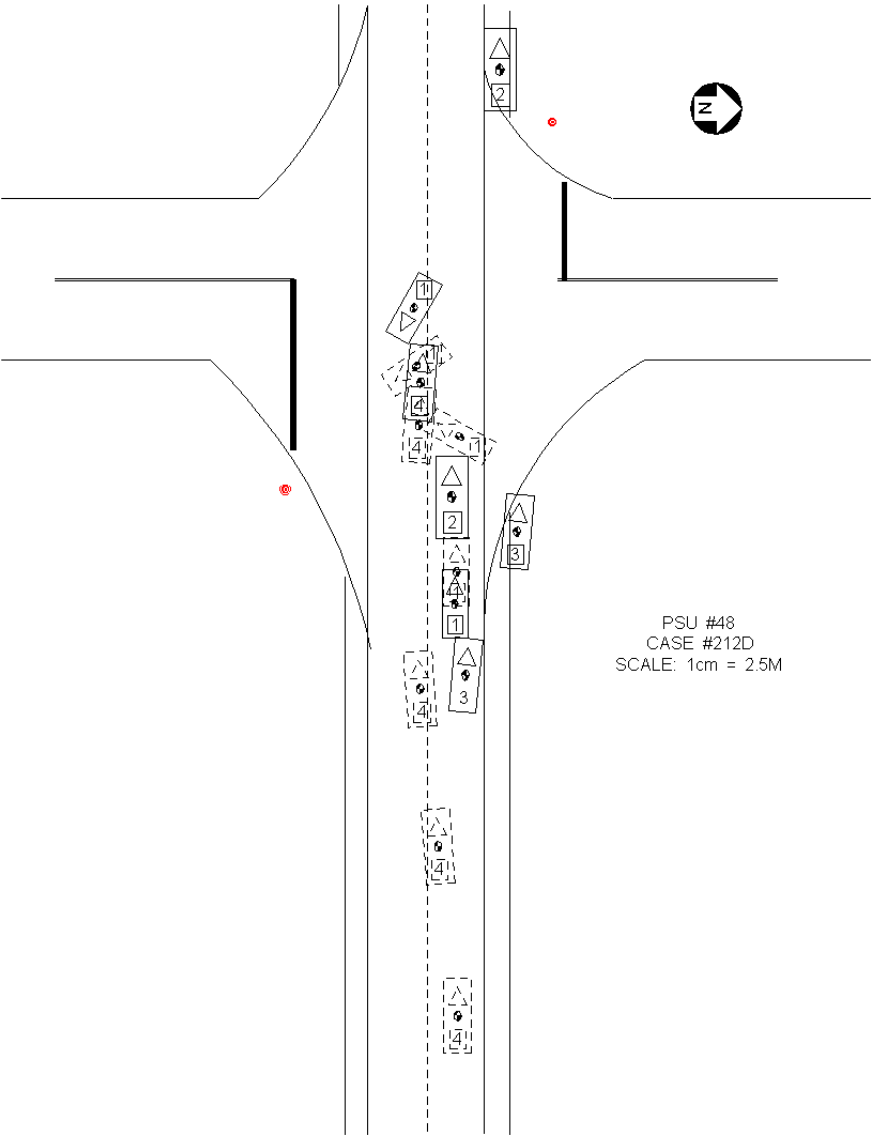
Occupant	1997-48-154-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Eye avulsion	Unknown SOURCE
1=Minor	297602	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Thoracic skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin laceration, minor	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
3=Serious	Orbit fracture, open/displaced/comminuted	Unknown SOURCE

46 Case 1997-48-212

Summary:

V1, V2, V3 AND V4 WERE ALL WESTBOUND ON A TWO-LANE UNDIVIDED ROADWAY. V2 WAS STOPPED WAITING TO MAKE A LEFT TURN ONTO AN INTERSECTING ROAD. V1 WAS STOPPED BEHIND V2. V3 STRUCK V1 IN THE BACK , KNOCKING V1 INTO THE BACK OF V2. V1 THEN ROTATED APPROXIMATELY 160 DEGREES INTO THE EASTBOUND LANE WHERE IT WAS STRUCK IN THE LEFT SIDE BY THE FRONT OF V4. V1 AND V4 CAME TO REST IN THE ROAD NEAR IMPACT. V2 AND V3 CAME TO REST ON THE RIGHT SHOULDER OF THE ROAD. V1 AND V3 WERE TOWED FROM THE SCENE DUE TO DISABLING DAMAGE. V2 AND V4 WERE DRIVEN AWAY. THE UNRESTRAINED DRIVER OF V1 WAS TREATED AND RELEASED AT A TRAUMA CENTER.



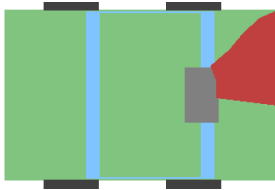
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Corolla	1980	1	44	MALE	1=Minor
3	COMPACT PICKUP	Ford	Ranger	1997	1	58	MALE	0=None

Occupant: 1997-48-212-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	58 58 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Z E W 6
Damage (C1-C6)	88 88 97 70 51 26
Crush (L and D)	140 33
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	3278.6883927
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Corolla
Year	1980
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	97

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	44	Height	175	Weight	70
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-48-212-1-1
MAIS	1=Minor
Seat Position	Front left side

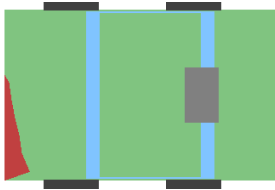
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Front header
1=Minor	Facial skin contusion	Front header
1=Minor	Awake on admission, NFS	Front header
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Upper extremity skin contusion	Steering comb
1=Minor	Facial skin contusion	Front header

Occupant: 1997-48-212-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	41 -41 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	37 25 22 16 10 7
Crush (L and D)	156 -18
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	3278.6883927
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Ranger
Year	1997
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	134

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	58	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	ONLY DR BAG DEPL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

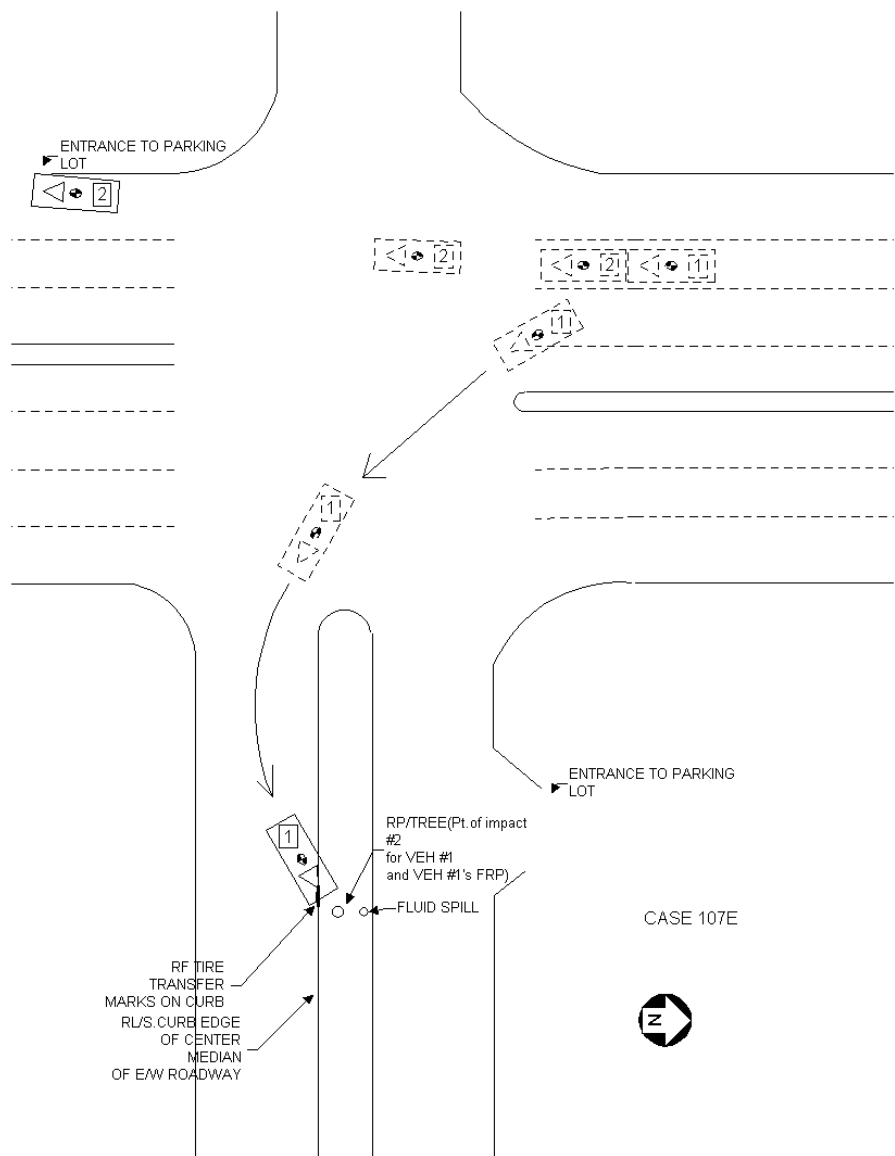
Occupant	1997-48-212-3-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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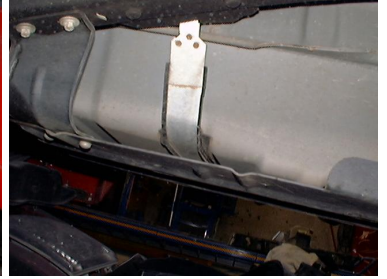
Summary:

VEHICLE 1, FRONT PLANE IMPACTED VEHICLE 2 REAR PLANE , WHILE VEHICLE 1 WAS STOPPED AT A RED LIGHT ON A NORTH BOUND TO SOUTH BOUND ROADWAY . VEHICLE 1 THEN TURNED LEFT ONTO EAST TO WEST ROADWAY AND HIT A TREE (2ND POI AND FRP) WITH ITS FRONT PLANE. VEHICLE 2 WAS KNOCKED THRU INTERSECTION, AND CAME TO REST IN LANE 1, AND NEAR THE CURB. BOTH VEHICLES WERE TOWED AWAY DUE TO BODY DAMAGE. BOTH DRIVERS WERE TRANSPORTED TO A LOCAL HOSPITAL DUE TO INJURIES RECEIVED IN THE CRASH. THE DRIVER OF VEHICLE 1 HAD B INJURIES ACCORDING TO THE PAR. DRIVER OF VEHICLE 2 HAD C INJURIES ACCORDING TO THE PAR. NO OTHER PASSENGERS WERE REPORTED TO BE IN EITHER VEHICLES INVOLVED IN THIS CRASH. VEHICLE 1 AIRBAGS (DRIVER FRONT RIGHT PASSENGER SIDE.) DEPLOYED AT IMPACT. THE DRIVER OF VEHICLE 1 STATED THE AIRBAG RIPPED HIS SHIRT BURNED HIM. THE AIRBAG WAS REMOVED AND DISCARDED PRIOR TO MY INSPECTION. FRONT PASSENGER. AIRBAG WAS REMOVED AND PLACED IN A CONTAINER. REPAIR SHOP MANAGER STATED, THE DRIVER TOLD HIM THE DRIVER'S SIDE AIRBAG HAD DEPLOYED AFTER IMPACT. HE SUGGESTED THAT THE LIFT KIT ON THE TRUCK CAUSED THE "DELAY."



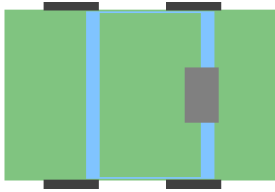
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1997	1	24	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Chevrolet	Monte Carlo	1970	1	32	MALE	1=Minor

Occupant: 1997-49-107-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	32 -32 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D 9 9 0
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	330.44573784
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1997
Class	TRUCK
Body Type	LARGE PICKUP
Weight	196

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	24	Height	174	Weight	84
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-107-1-1
MAIS	1=Minor
Seat Position	Front left side

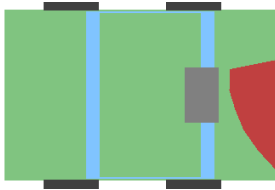
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Air bag-DR side
1=Minor	492002	Air bag-DR side

Occupant: 1997-49-107-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 39 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B D E W 6
Damage (C1-C6)	0 27 48 61 70 68
Crush (L and D)	178 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	330.44573784
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Monte Carlo
Year	1970
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	162

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	32	Height	165	Weight	57
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Lap belt
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

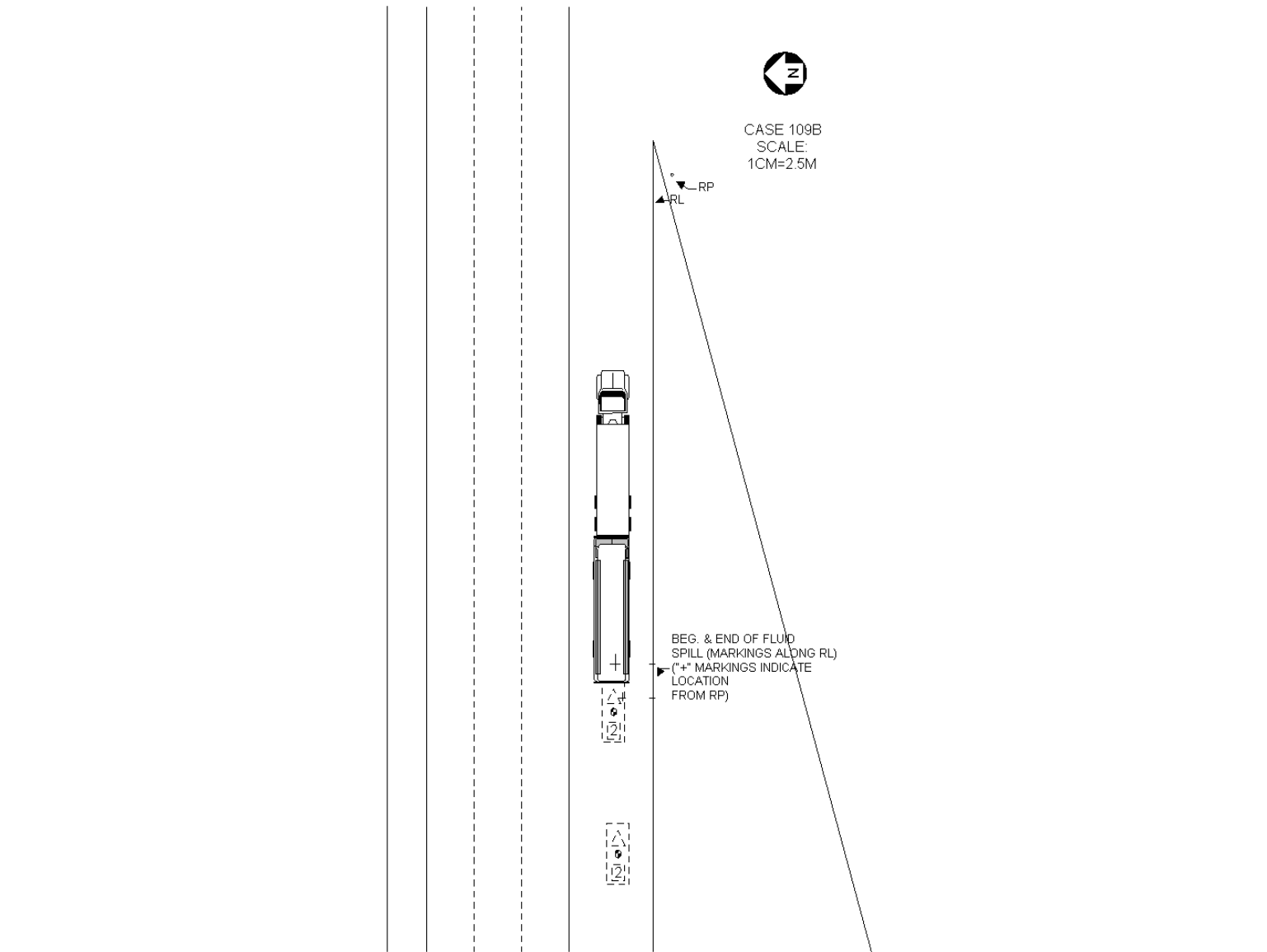
Occupant	1997-49-107-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact

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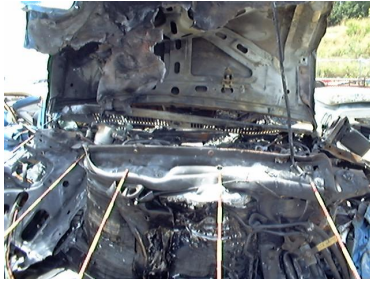
Summary:

VEH 2 (CDS APPLICABLE VEH) DROVE ALONG RIGHT SHOULDER CONTACTING IT'S FRONT PLANE INTO THE BACK PLANE OF VEH 1 (NON-CDS VEH) WHILE IT WAS PARKED. VEH 1 WAS A TRUCK TRACTOR WITH TWO TRAILERS. UPON IMPACT, VEH 2 CAUGHT FIRE. VEH 2'S DRIVER WAS PRONOUNCED DEAD AT THE SCENE. FR OCC OF VEH 2 WAS TRANSPORTED. VEH 2 WAS TOWED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE UTILITY	GMC	Jimmy fullsize	1992	1	21	MALE	6=Maximum
1	LARGE UTILITY	GMC	Jimmy fullsize	1992	2	21	MALE	1=Minor

Occupant: 1997-49-109-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	52 F D E W 3
Damage (C1-C6)	35 26 28 31 49 54
Crush (L and D)	163 0
Object Contacted 1	Not IN TRAN HVYVEH
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	9.7845118947
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	22

Vehicle Factors

Make-Model	GMC Jimmy fullsize
Year	1992
Class	TRUCK
Body Type	LARGE UTILITY
Weight	169

Pre-Crash Driver Data

Accident Type	11
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	21	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

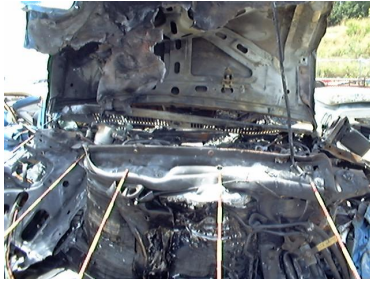
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-109-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Windshield
1=Minor	Facial skin abrasion	Windshield
4=Severe	Lung contusion, bilateral	Steering comb
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Reinforced wndsh
1=Minor	Mandible fracture, closed, location NFS	Reinforced wndsh
6=Maximum	Brain stem laceration	Reinforced wndsh
4=Severe	Cerebellar hematoma, epidural, NFS	Reinforced wndsh
5=Critical	Brainstem contusion	Reinforced wndsh

Occupant: 1997-49-109-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	52 F D E W 3
Damage (C1-C6)	35 26 28 31 49 54
Crush (L and D)	163 0
Object Contacted 1	Not IN TRAN HVYVEH
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	9.7845118947
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	22

Vehicle Factors

Make-Model	GMC Jimmy fullsize
Year	1992
Class	TRUCK
Body Type	LARGE UTILITY
Weight	169

Pre-Crash Driver Data

Accident Type	11
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	21	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

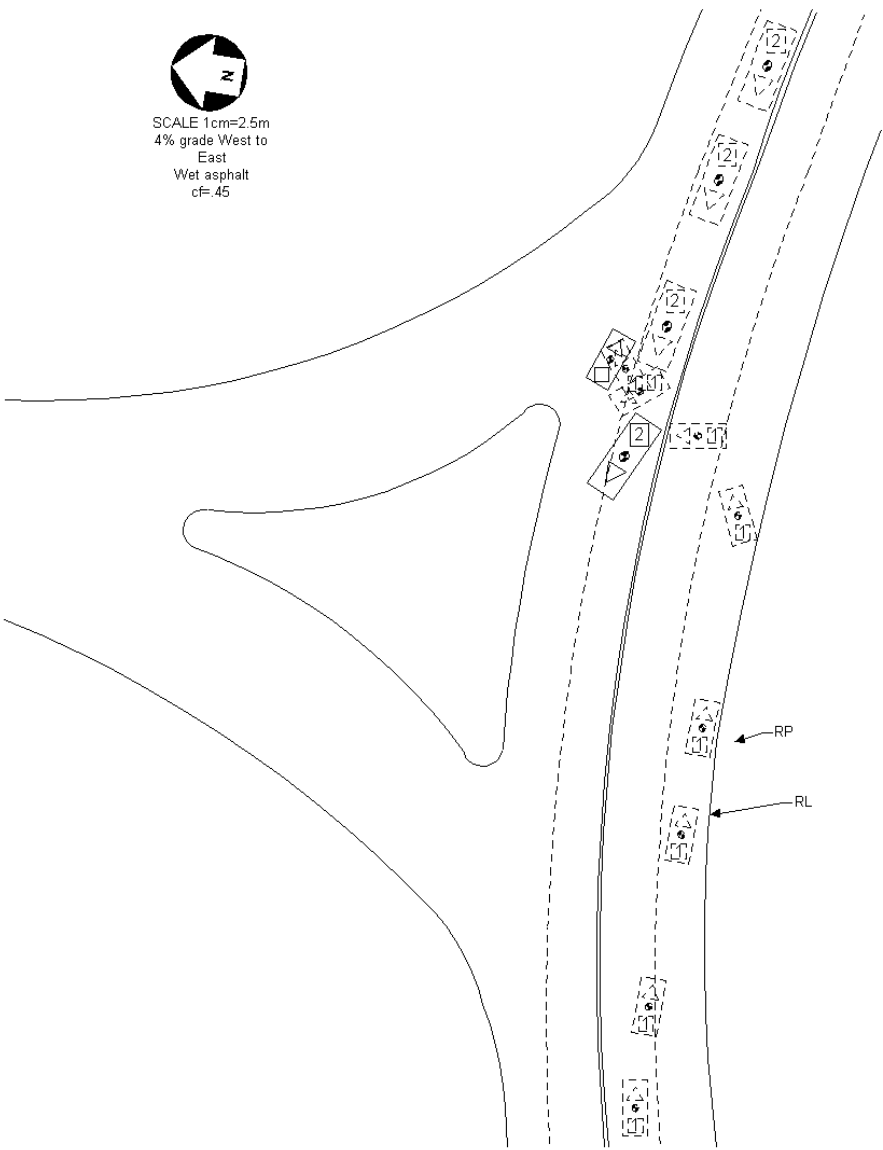
Occupant	1997-49-109-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin laceration, minor	Floor
1=Minor	Leg skin abrasion	Floor
1=Minor	297602	Flying glass

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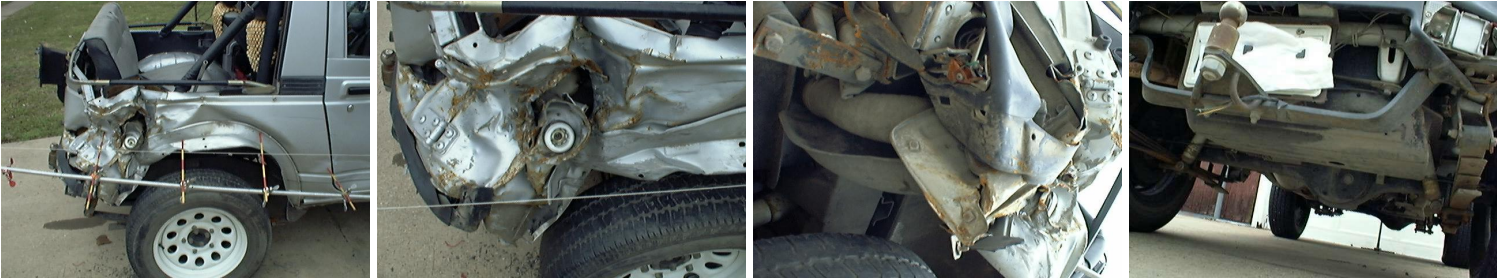
Summary:

VEHICLE 1 WAS TRAVELING EAST IN THE SECOND LANE OF A WET, FOUR LANE, UNDIVIDED ROADWAY. AFTER MERGING INTO THE RIGHT LANE TO PASS A SLOWER VEHICLE, CONTROL OF VEHICLE 1 WAS LOST AND A SLIGHT IMPACT TO THE RIGHT CURB WAS MADE. VEHICLE 1 CONTINUED FORWARD AND BEGAN TO ROTATE COUNTERCLOCKWISE ACROSS BOTH LANES OF TRAFFIC AND INTO THE 2ND LANE OF WESTBOUND TRAFFIC. THE FRONT OF VEHICLE 2, WHICH WAS TRAVELING WEST IN THE SECOND LANE, COLLIDED WITH THE RIGHT REAR CORNER OF VEHICLE 1. VEHICLE # 1 ROTATED CW AND CONTACTED ITS RIGHT SIDE WITH VEHICLE#2,S RIGHT SIDE. THE DRIVER OF VEHICLE 1 WAS TREATED AND RELEASED WHILE ALL THREE OCCUPANTS OF VEHICLE 2 WERE TRANSPORTED AND RELEASED. BOTH VEHICLES WERE TOWED.



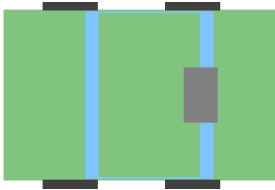
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Suzuki	Samarai	1988	1	17	FEMALE-NOT PREG	1=Minor
2	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1973	1	24	MALE	0=None
2	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1973	2	31	MALE	1=Minor
2	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1973	3	38	FEMALE-NOT PREG	1=Minor

Occupant: 1997-49-11-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 37 -13
Est. δV with sequence number	DELTA V CODED 1
CDC	5 B Z E W 3
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	328.76018627
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Suzuki Samarai
Year	1988
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	95

Pre-Crash Driver Data

Accident Type	67
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	17	Height	173	Weight	57
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-11-1-1
MAIS	1=Minor
Seat Position	Front left side

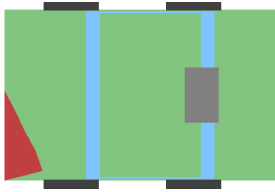
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Lumbar spine acute strain without fracture or dislocation	Other noncontact
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	690402	Seat, back

Occupant: 1997-49-11-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE LEFT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 -20 4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	56 45 29 16 0 0
Crush (L and D)	174 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	328.76018627
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Cutlass RWD
Year	1973
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	173

Pre-Crash Driver Data

Accident Type	67
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	24	Height	152	Weight	92
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-11-2-1
MAIS	0=None
Seat Position	Front left side

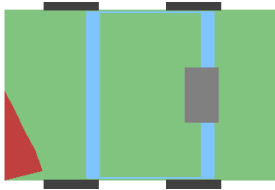
AIS Level	Injury Description	Contacts
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Occupant: 1997-49-11-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE LEFT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 -20 4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	56 45 29 16 0 0
Crush (L and D)	174 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	328.76018627
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Cutlass RWD
Year	1973
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	173

Pre-Crash Driver Data

Accident Type	67
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	31	Height	188	Weight	78
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-11-2-2
MAIS	1=Minor
Seat Position	Front right side

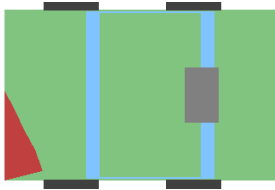
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Windshield
1=Minor	Leg skin contusion (hematoma)	Glove door

Occupant: 1997-49-11-2-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE LEFT
Roadway Profile	HILL CREST
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	20 -20 4
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	56 45 29 16 0 0
Crush (L and D)	174 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	328.76018627
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Cutlass RWD
Year	1973
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	173

Pre-Crash Driver Data

Accident Type	67
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	38	Height	168	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

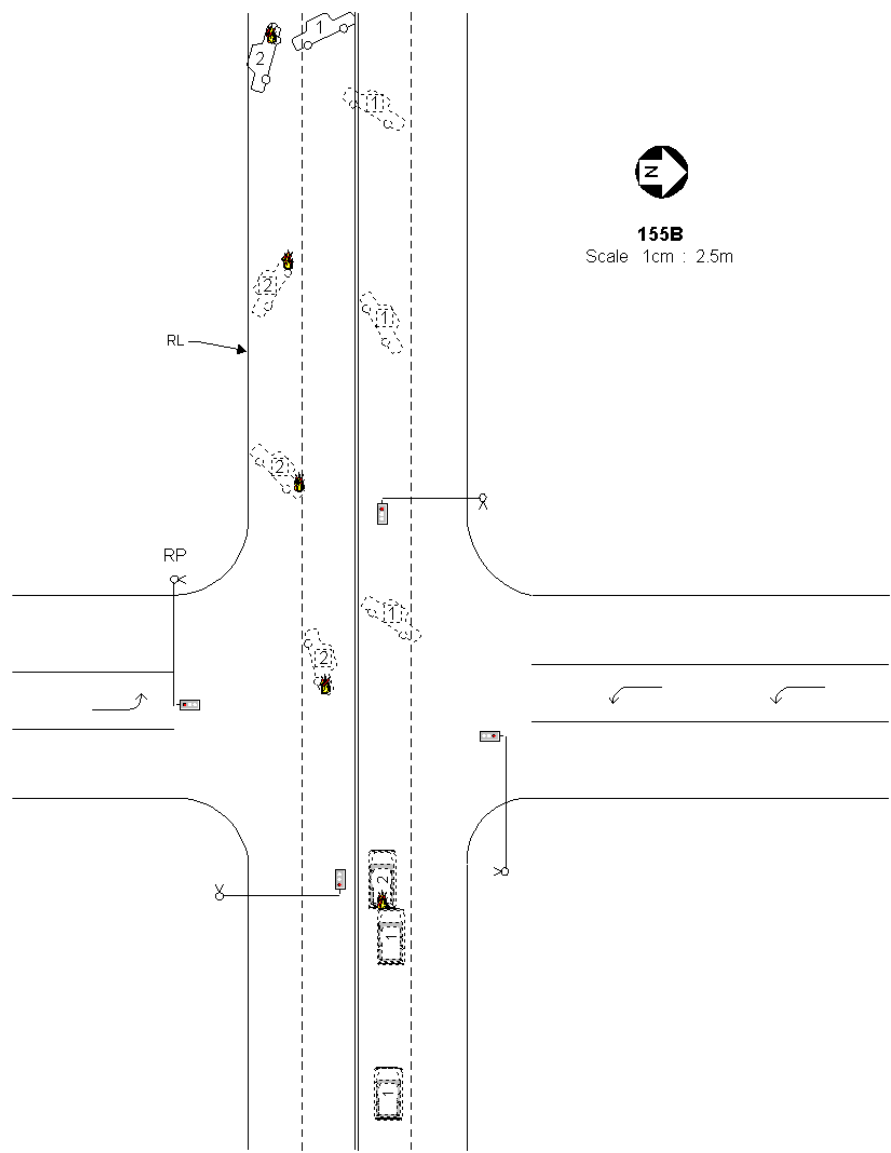
Occupant	1997-49-11-2-3
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Lumbar spine acute strain without fracture or dislocation	Seat, back
1=Minor	Leg skin contusion (hematoma)	Seat, back

50 Case 1997-49-155

Summary:

Vehicle 1 was WB in the 2nd lane of a 4-lane undivided dry 2-way asphalt urban street. V2 was stopped in the same lane of the same trafficway waiting for a traffic light to change. V1 impacted front distributed to V2's back distributed. V2 CAUGHT FIRE upon impact. V1 then came to rest still WB in the intersection. V2 was propelled forward and began a CCW rotation. V2 then rolled onto it's passenger side and skidded on its side, crossing the EB lanes and came to rest facing SE, Both vehicles were towed due to damage and both drivers, and sole occupants of their respective vehicles, were transported from the scene.



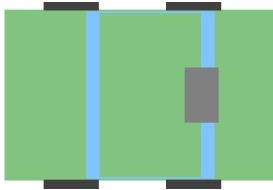
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	Cherokee84-	1996	1	44	MALE	0=None
2	COMPACT UTILITY	Jeep	CJ-5/CJ-6/CJ-7/CJ-8	1974	1	17	MALE	5=Critical

Occupant: 1997-49-155-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	13.90026183
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object	VEHICLE NO. 2
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1996
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	136

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	44	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

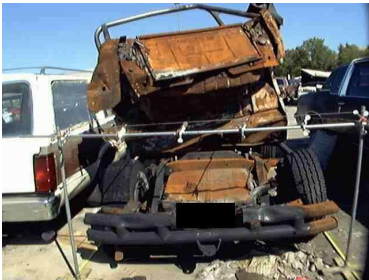
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-155-1-1
MAIS	0=None
Seat Position	Front left side

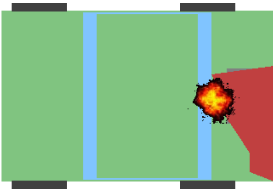
AIS Level	Injury Description	Contacts
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Occupant: 1997-49-155-2-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Line/pump/filter
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	6 B D E W 6
Damage (C1-C6)	29 30 45 63 67 78
Crush (L and D)	146 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	13.90026183
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object	VEHICLE NO. 1
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep CJ-5/CJ-6/CJ-7/CJ-8
Year	1974
Class	Unknown
Body Type	COMPACT UTILITY
Weight	117

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	17	Height	168	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

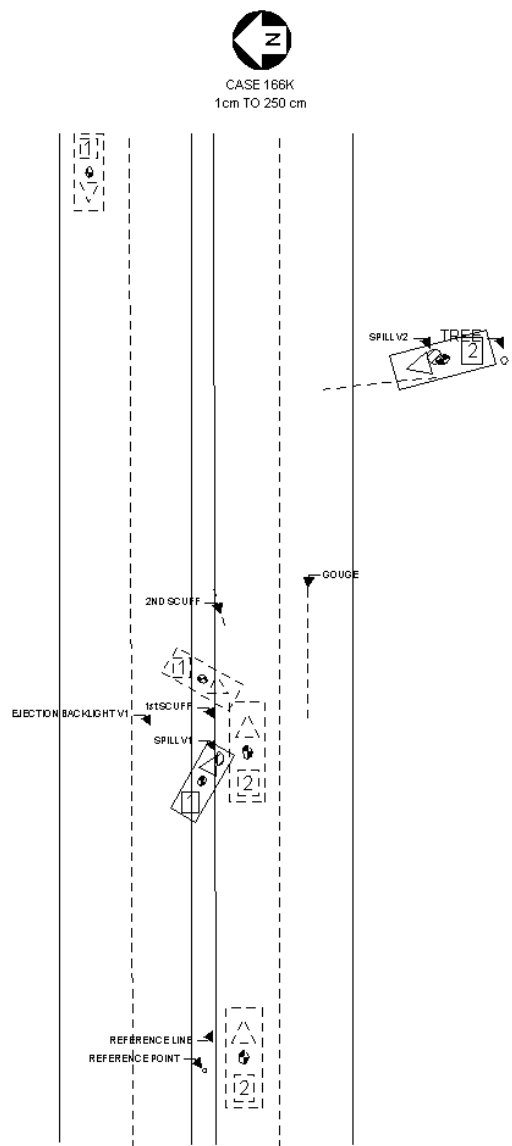
Occupant	1997-49-155-2-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Burn, 2nd or 3rd degree, 40	

51 Case 1997-49-166

Summary:

VEHICLE 1 WESTBOUND ON A FOUR LANE DIVIDED HIGHWAY WITHOUT BARRIER LEFT ITS LANE CROSSED THE MEDIAN AND COLLIDED HEAD ON WITH VEHICLE 2 WHICH WAS EASTBOUND. BOTH VEHICLES WERE TOWED DUE TO DAMAGE. VEHICLE 2 HAD A LOSS OF INTEGRITY WHEN THE ENTIRE LEFT DOOR WAS RIPPED FROM THE VEHICLE. THIS RESULTED IN A PARTIAL EJECTION. VEHICLE 2 ALSO INDICATED FUEL LOSS. THE DRIVER OF VEHICLE 1 HAD A COMPLETE EJECTION FROM THE BACKLIGHT. BOTH OCCUPANTS WERE TRANSPORTED WITH A INJURIES.



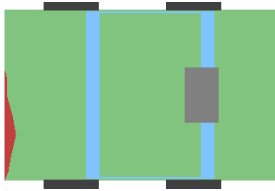
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Mercury	Sable	1987	1	22	MALE	3=Serious
2	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1988	1	56	MALE	3=Serious

Occupant: 1997-49-166-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	19

Vehicle Factors

Make-Model	Mercury Sable
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	138

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	2 F D E W 2
Damage (C1-C6)	6 10 17 12 4 4
Crush (L and D)	162 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	7.9432325547
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DRIVER Factors

Age	22	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-166-1-1
MAIS	3=Serious
Seat Position	Front left side

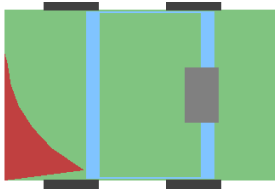
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Windshield
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Upper extremity skin laceration, minor	Windshield
1=Minor	Facial skin contusion	Windshield
3=Serious	Lung contusion, uni-lateral	Right panel

Occupant: 1997-49-166-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, on the rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	11 F Y E W 5
Damage (C1-C6)	116 69 40 21 9 4
Crush (L and D)	187 -31
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	7.9432325547
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	GMC "C,K,R,V-series P/U"
Year	1988
Class	TRUCK
Body Type	LARGE PICKUP
Weight	169

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	56	Height	173	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

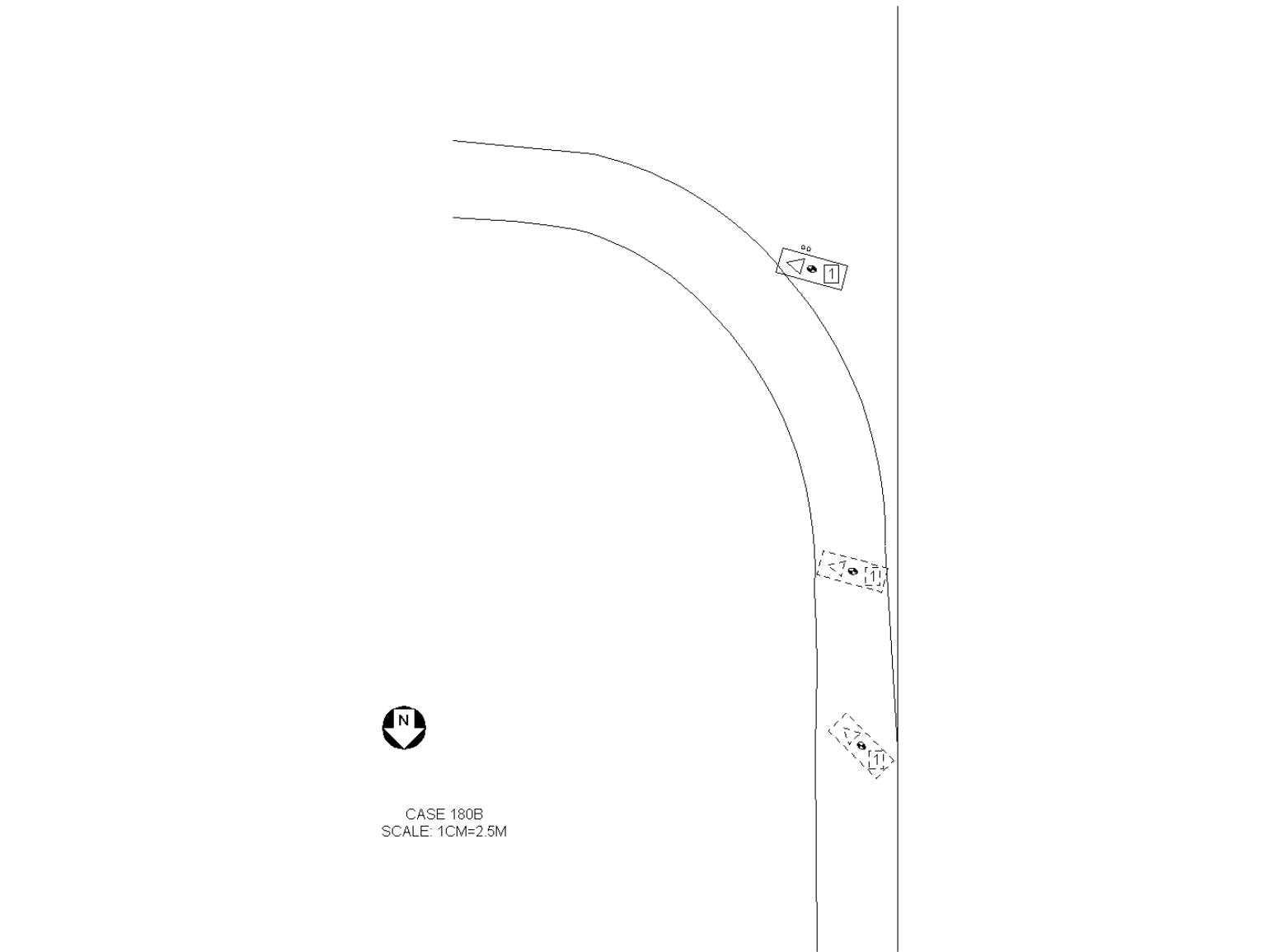
Injuries

Occupant	1997-49-166-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Left apnel
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Left apnel
2=Moderate	Tibial fracture medial malleolus, open/displaced/comminuted	Floor
2=Moderate	Fibular head, neck, or shaft fracture	Floor
2=Moderate	Talus fracture	Floor
3=Serious	Lung contusion, unilateral	Steering comb
2=Moderate	2-3 rib fractures with stable chest	Steering comb

52 Case 1997-49-180

Summary:
VEH 1 FAILED TO NEGOTIATE A 90 DEGREE CURVE OF A DRY, ASPHALT, NEGATIVE SLOPED ROADWAY. VEH 1'S RIGHT PLANE IMPACTED A PAIR OF TREES. THERE WAS A FIRE IN THE ENGINE COMPARTMENT. DRIVER WAS TRANSPORTED TO A HOSPITAL. FR OCCUPANT WAS PRONOUNCED DEAD 82 MINUTES AFTER THE CRASH OCCURRED. THE VEH WAS TOWED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Oldsmobile	Ninety-Eight	1988	1	15	MALE	3=Serious
1	4-DR SEDAN/HDTOP	Oldsmobile	Ninety-Eight	1988	2	18	MALE	6=Maximum

Occupant: 1997-49-180-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	63 R F E N 5
Crush (L and D)	0 2 5 53 0 0
Object Contacted 1	32 141
Object Contacted 2	SMALL TREE
	SMALL TREE

NASS Weighting Factor

Weighting factor	8.578202209
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Ninety-Eight
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	15	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-180-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Left apnel
2=Moderate	Pelvic fracture, closed	Left apnel
1=Minor	Thoracic skin contu- sion	Steering comb
1=Minor	Thoracic skin abra- sion	Belt webb/buckle
1=Minor	Facial skin laceration, minor	Steering rim

Occupant: 1997-49-180-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	63 R F E N 5
Crush (L and D)	0 2 5 53 0 0
Object Contacted 1	32 141
Object Contacted 2	SMALL TREE
	SMALL TREE

NASS Weighting Factor

Weighting factor	8.578202209
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Ninety-Eight
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	151

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	18	Height	173	Weight	122
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

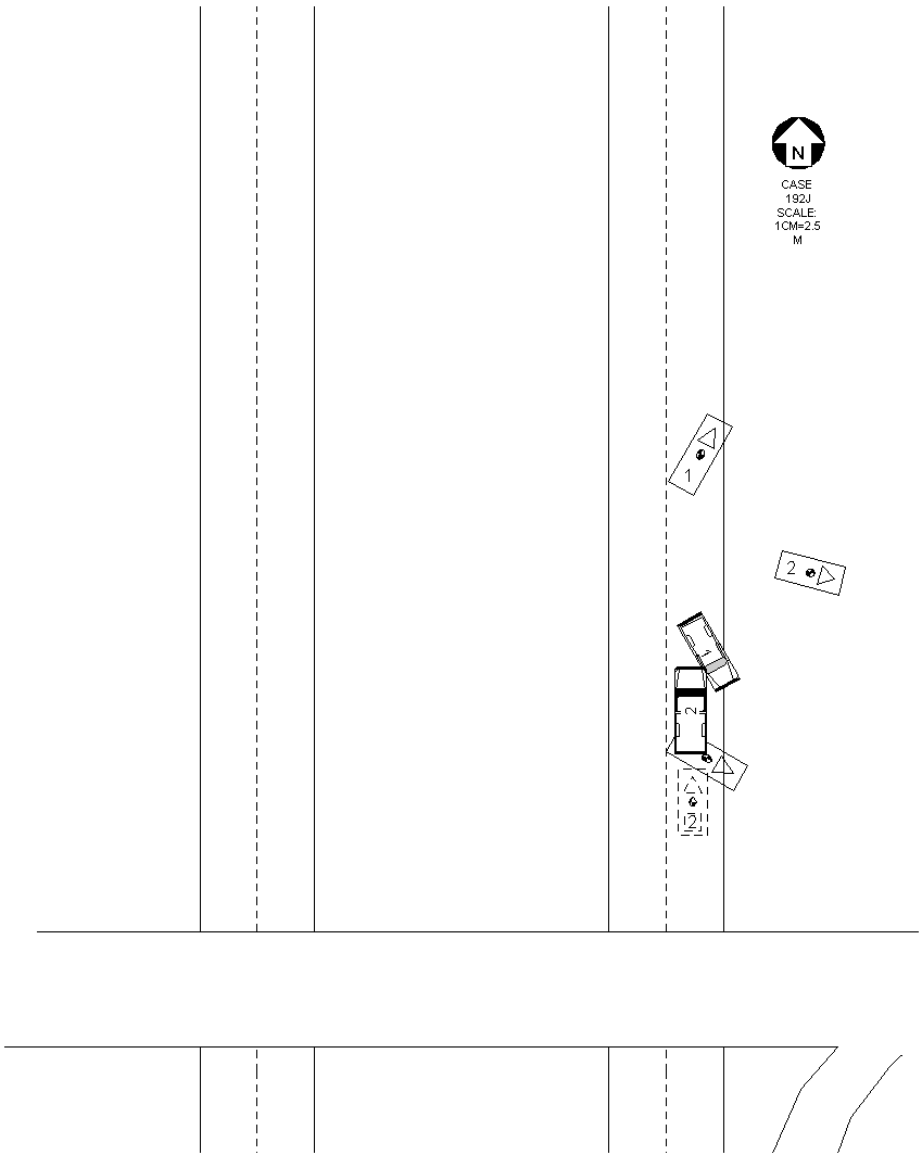
Occupant	1997-49-180-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Other veh or obj
1=Minor	Facial skin laceration, minor	Other veh or obj
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Other veh or obj
3=Serious	Basilar skull fracture, without CSF leak	Other veh or obj
3=Serious	Cerebral subarachnoid hemorrhage	Other veh or obj
3=Serious	Cerebral subarachnoid hemorrhage	Other veh or obj
4=Severe	Cerebral intraventricular hemorrhage	Other veh or obj
6=Maximum	Cord laceration, complete, C3 or above, with dislocation	Other veh or obj
1=Minor	Thoracic skin abrasion	Right interior
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Right interior
3=Serious	Lung contusion, unilateral	Right interior
3=Serious	Lung laceration, unilateral NFS	Right interior
1=Minor	Upper extremity skin laceration, minor	Right interior
1=Minor	Leg skin abrasion	Unknown SOURCE
3=Serious	Femoral shaft fracture	Right interior

53 Case 1997-49-192

Summary:

VEH 1 WAS STOPPED IN ROADWAY, PERPENDICULAR TO TRAFFIC LANES. VEH 2 WAS NORTHBOUND IN LANE 1 OF A DRY, CONCRETE AND LEVEL ROADWAY. VEH 2'S FRONT PLANE CONTACTED VEH 1'S RIGHT PLANE. VEH 1 ROTATED COUNTERCLOCKWISE NORTHBOUND ON ROADWAY. VEH 2 ROTATED CLOCKWISE EXITING THE ROADWAY. VEH 1 DRIVER WAS EJECTED. BOTH VEH'S WERE TOWED. BOTH DRIVERS OF EACH VEH WERE TRANSPORTED. NO OTHER OCCS. VEH 1'S DRIVER SIDE AIRBAG DEPLOYED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	GMC	S15	1996	1	23	MALE	4=Severe
2	LARGE PICKUP	Dodge	Ram 1500 P/U	1993	1	42	MALE	7=Unk. sev.

Occupant: 1997-49-192-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	59 -38 -45
Est. δV with sequence number	DELTA V CODED 1
CDC	62 R Z A W 5
Damage (C1-C6)	6 65 64 58 50 0
Crush (L and D)	280 -58
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	6.9793585167
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	GMC S15
Year	1996
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	136

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	23	Height	0	Weight	0
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-192-1-1
MAIS	4=Severe
Seat Position	Front left side

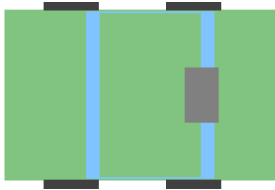
AIS Level	Injury Description	Contacts
3=Serious	Diaphragm laceration or rupture	Seat, back
4=Severe	Cerebral subdural hematoma, NFS	Right B pillar
3=Serious	Cerebral edema, NFS	Right B pillar
3=Serious	Carotid artery injury NFS	Roof
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Seat, back
1=Minor	Abdominal skin contusion	Seat, back
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<202=Moderate	Clavicle fracture
Ground		
4=Severe	Unconscious on admission, length NFS & neuro deficit	Rear header
4=Severe	Intracerebral hematoma, NFS	Roof
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Rear header
3=Serious	Diaphragm laceration or rupture	Seat, back

Occupant: 1997-49-192-2-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	39 -39 -7
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	6.9793585167
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Ram 1500 P/U
Year	1993
Class	TRUCK
Body Type	LARGE PICKUP
Weight	0

Pre-Crash Driver Data

Accident Type	66
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	42	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

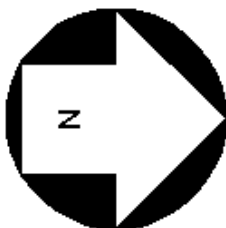
Injuries

Occupant	1997-49-192-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

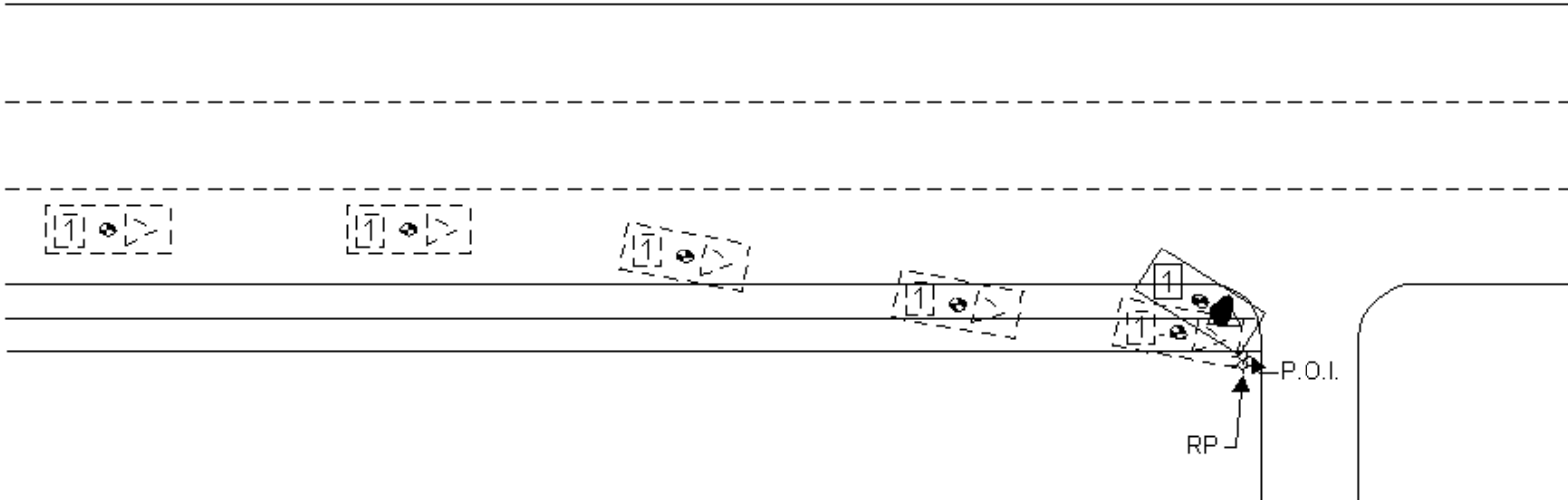
AIS Level	Injury Description	Contacts
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54 Case 1997-49-31

Summary:
VEHICLE 1 WAS TRAVELING NORTH IN THE FIRST LANE OF THREE ON A DIVIDED ROADWAY. THE VEHICLE WENT OFF THE ROAD TO THE RIGHT AND CONTINUED UNTIL THE FRONT COLLIDED WITH A TELEPHONE POLE. THE DRIVER WAS TRANSPORTED AND THE VEHICLE WAS TOWED.



031B
DRY CONCRETE
CF=.75
4% GRADE
1 CM = 2.5 M



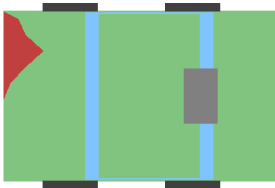
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Probe	1995	1	24	FEM-PREG 2ND TRI	1=Minor

Occupant: 1997-49-31-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Abraded
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	41
Total, Longitudal, and Lateral δV	39 -39 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Z E W 3
Damage (C1-C6)	0 10 32 58 33 22
Crush (L and D)	140 24
Object Contacted 1	LARGE POLE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	520.40622669
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Probe
Year	1995
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	122

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	24	Height	0	Weight	0
Gender					FEM-PREG 2ND TRI
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

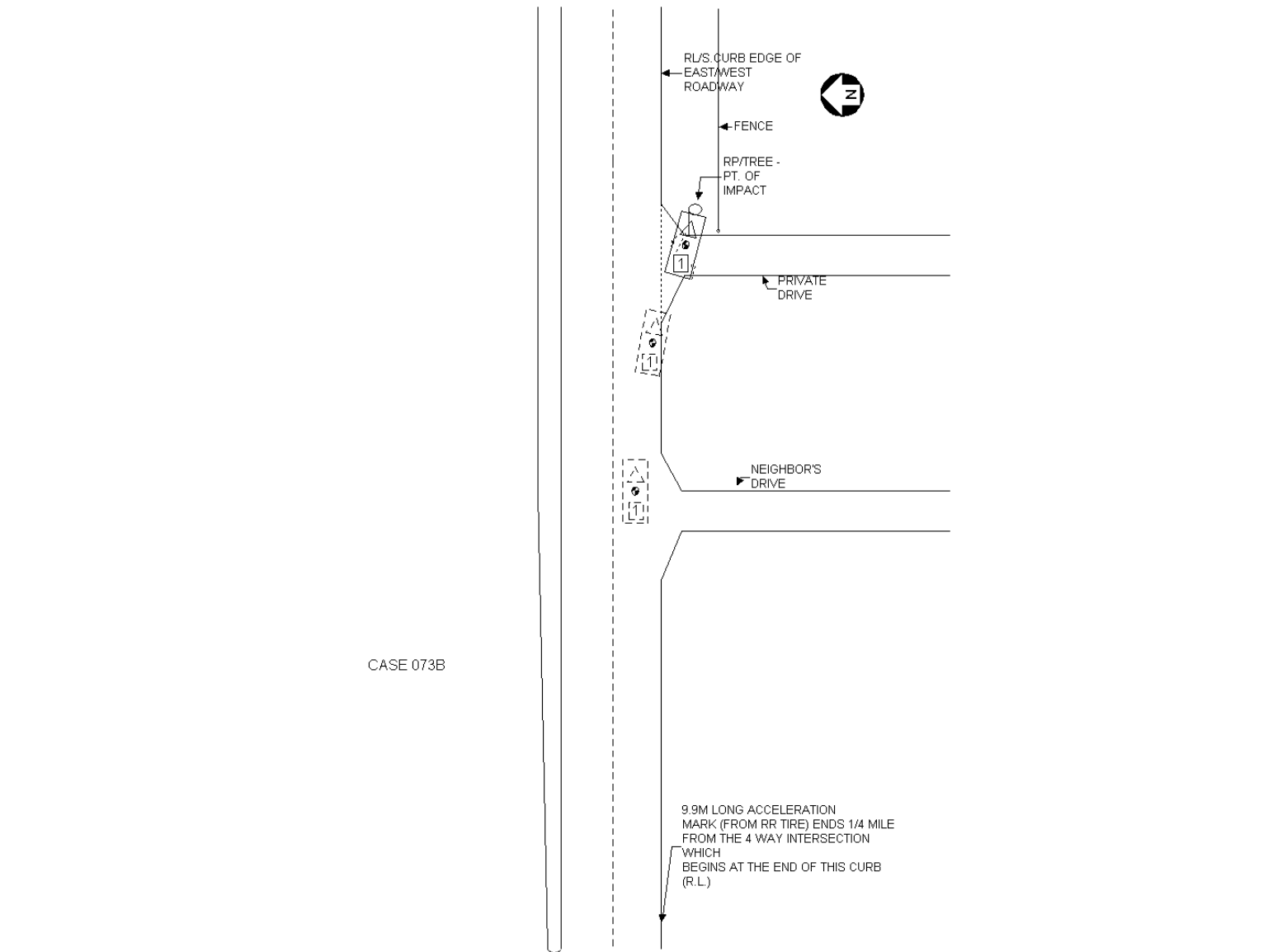
Occupant	1997-49-31-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin laceration, minor	Knee bolster
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Neck skin laceration, minor	Flying glass
1=Minor	Facial skin contusion	Steering rim

55 Case 1997-49-73

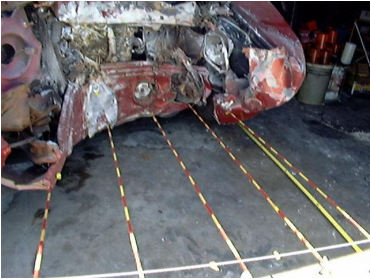
Summary:

SINGLE VEH EAST BOUND ON EAST/WEST DIVIDED ROADWAY. VEH VEERED OFF ROADWAY TO THE RIGHT AND HIT A TREE. DRIVER WAS DEAD AT THE SCENE. FR PASSENGER WAS TRANSPORTED. VEH WAS TOWED. POLICE REPORT INDICATED EXCESSIVE SPEED UPON IMPACT. DAMAGE WAS TO THE FRONT PLANE - SEVERE DAMAGE. STEERING COLUMN FAILED - BROKE AWAY FROM THE COUPLER YOKES ON EACH SIDE OF THE COLUMN. NO RESTRAINTS WERE UTILIZED. NO AIR BAGS AVAILABLE.



Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Chevrolet	Camaro	1969	1	25	MALE	6=Maximum
1	2DR SEDAN/HT/CPE	Chevrolet	Camaro	1969	2	21	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1997-49-73-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	84
Total, Longitudal, and Lateral δV	83 -83 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	78 101 109 96 28 17
Crush (L and D)	170 -34
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	8.578202209
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Camaro
Year	1969
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	142

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	25	Height	185	Weight	76
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-73-1-1
MAIS	6=Maximum
Seat Position	Front left side

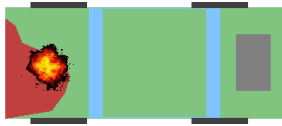
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Windshld DR side
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Windshield
3=Serious	Cerebral subarachnoid hemorrhage	Windshield
6=Maximum	Myocardial laceration with complex perforation	Steering comb
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Steering comb
2=Moderate	Pelvic fracture NFS	Left apnel
2=Moderate	Knee laceration into joint	Left apnel
3=Serious	Humeral fracture, open/displaced/comminuted	Left apnel
2=Moderate	Fibular head, neck, or shaft fracture	Left apnel
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Left apnel
1=Minor	Facial skin abrasion	Windshield
1=Minor	Neck skin abrasion	Steering rim
1=Minor	Facial skin contusion	Windshld DR side
1=Minor	Thoracic skin abrasion	Sterring hub
1=Minor	Facial skin laceration, minor	Left apnel
1=Minor	Thoracic skin abrasion	Steering rim
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Leg skin contusion (hematoma)	Foot controls
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1997-49-73-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	84
Total, Longitudal, and Lateral δV	83 -83 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 4
Damage (C1-C6)	78 101 109 96 28 17
Crush (L and D)	170 -34
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	8.578202209
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Camaro
Year	1969
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	142

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	21	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

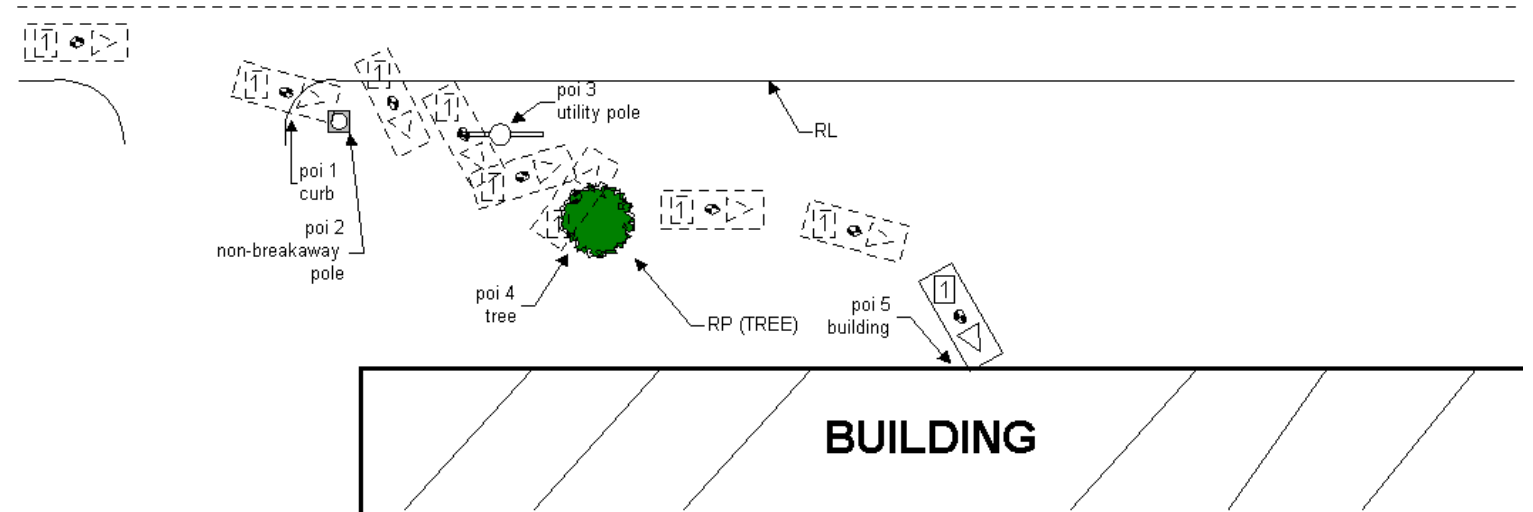
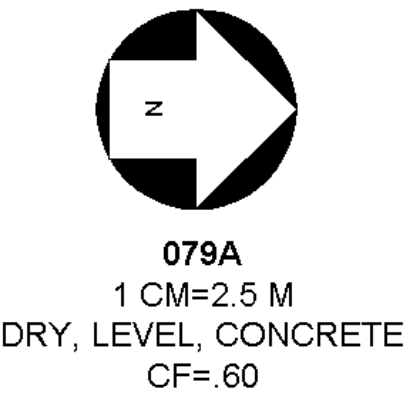
Occupant	1997-49-73-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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56 Case 1997-49-79

Summary:

VEHICLE 1 WAS TRAVELING NORTH IN AN UNDETERMINED LANE ON A SIX LANE DIVIDED ROADWAY. THE VEHICLE DEPARTED THE ROADWAY TO THE RIGHT SIDE AND COLLIDED WITH A VERTICAL WATER PIPE STICKING OUT OF THE GROUND. THIS CAUSED THE VEHICLE TO ROTATE TO CLOCKWISE AND THE LEFT SIDE COLLIDED WITH A TELEPHONE POLE. CONTINUING, THE VEHICLE'S RIGHT SIDE STRUCK A TREE AND THEN CONTINUED FOR ROUGHLY 15 METERS BEFORE THE FRONT COLLIDED WITH THE WALL OF A BUILDING. THE DRIVER OF WAS FATALLY INJURED AND THE RF PASSENGER WAS NOT TRANSPORTED. THE VEHICLE WAS TOWED.



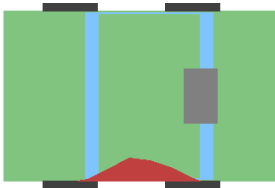
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Oldsmobile	Achieva	1996	1	24	FEMALE-NOT PREG	6=Maximum
1	2DR SEDAN/HT/CPE	Oldsmobile	Achieva	1996	2	28	MALE	7=Unk. sev.

Occupant: 1997-49-79-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -18 22
Est. δV with sequence number	DELTA V CODED 3
CDC	10 L P A W 4
Damage (C1-C6)	3 18 34 31 21 6
Crush (L and D)	182 -8
Object Contacted 1	LARGE POLE
Object Contacted 2	SMALL POLE

NASS Weighting Factor

Weighting factor	8.578202209
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	22

Vehicle Factors

Make-Model	Oldsmobile Achieva
Year	1996
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	125

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	No DRIVER
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	24	Height	140	Weight	61
Gender	FEMALE-NOT PREG				
Ejection	PARTIAL EJECTION				
Ejection Area	Left FRONT				
Entrapment	Not ENTRAPPED				

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

Occupant	1997-49-79-1-1
MAIS	6=Maximum
Seat Position	Front left side

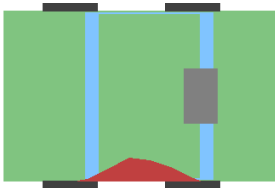
AIS Level	Injury Description	Contacts
6=Maximum	Head injury, crush (massive destruction of skull and brain)	Other veh or obj
1=Minor	Thoracic skin abrasion	Air bag-DR side
5=Critical	>3 rib fxs on each side, stable chest & hemo-/pneumothorax	Left interior
3=Serious	Myocardial contusion, minor	Left interior
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Upper extremity skin contusion	Air bag-DR side
1=Minor	Upper extremity skin abrasion	Air bag-DR side
1=Minor	Leg skin contusion (hematoma)	Steering rim
1=Minor	Leg skin laceration, minor	Left apnel

Occupant: 1997-49-79-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -18 22
Est. δV with sequence number	DELTA V CODED 3
CDC	10 L P A W 4
Damage (C1-C6)	3 18 34 31 21 6
Crush (L and D)	182 -8
Object Contacted 1	LARGE POLE
Object Contacted 2	SMALL POLE

NASS Weighting Factor

Weighting factor	8.578202209
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	22

Vehicle Factors

Make-Model	Oldsmobile Achieva
Year	1996
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	125

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	No DRIVER
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	28	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	BAG DEPLOYED

Injuries

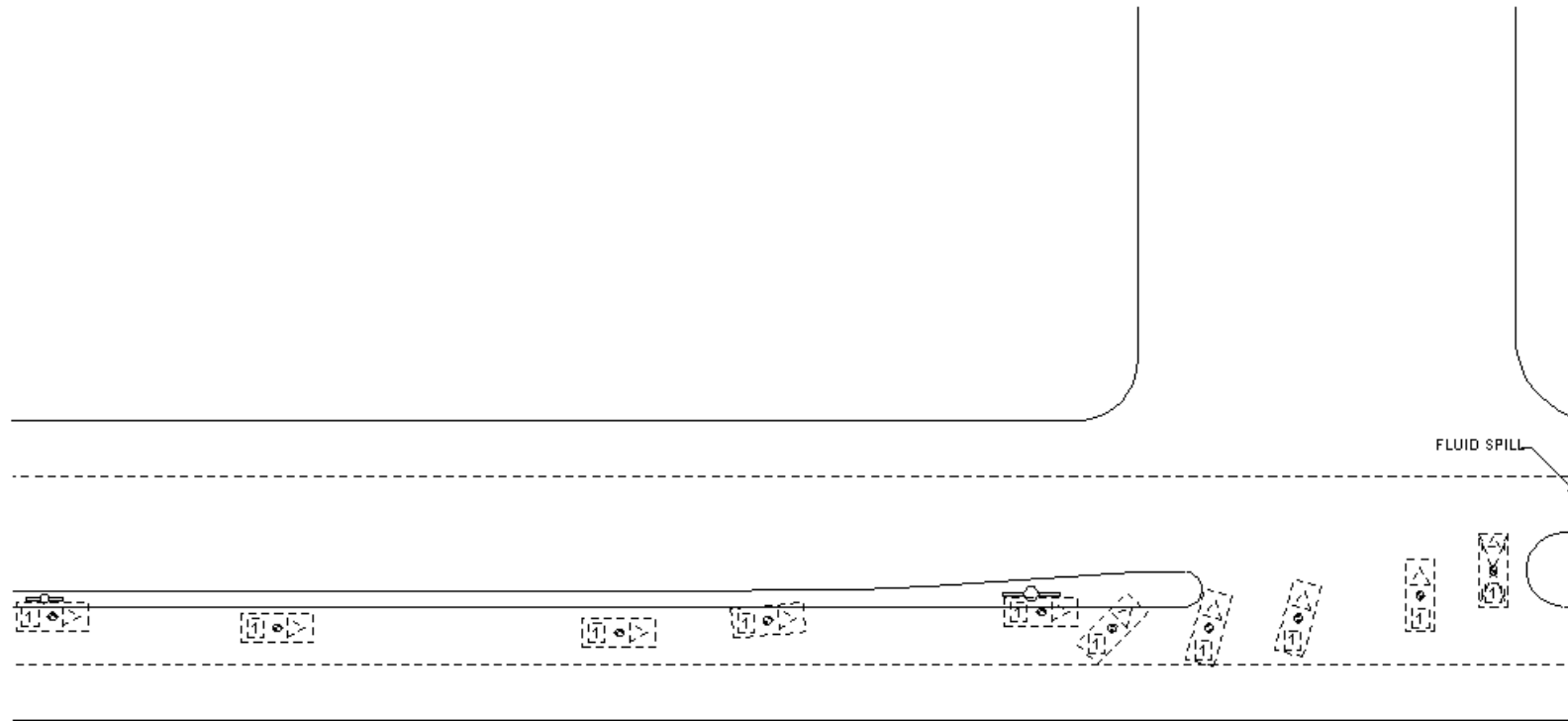
Occupant	1997-49-79-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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57 Case 1997-49-91

Summary:

V1 WAS TRAVELING NORTH ON A 4 LANE DIVIDED ROADWAY. IT DEPARTED THE LEFT SIDE OF THE ROADWAY WHERE IT STRUCK TWO WOOD UTILITY POLES IN THE MEDIAN. IT THEN ROLLED OVER BEFORE IN STRUCK A THIRD POLE ALSO LOCATED IN THE MEDIAN. THE REAR OCCUPANT WAS EJECTED AND RECEIVED FATAL INJURIES. THE RIGHT FRONT OCCUPANT SUSTAINED A B INJURY. THE DRIVER SUSTAINED UNKNOWN INJURIES.



091A
1 CM = 2.5 M
DRY ASPHALT
2.8% GRADE
CF = .55

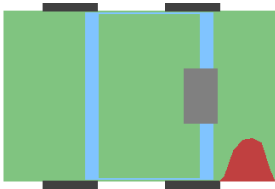
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	Cherokee84-	1996	1	LESS THAN ONE YR	MALE	0=None
1	COMPACT UTILITY	Jeep	Cherokee84-	1996	2	25	MALE	7=Unk. sev.
1	COMPACT UTILITY	Jeep	Cherokee84-	1996	3	32	MALE	5=Critical

Occupant: 1997-49-91-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 4
CDC	0 L B A W 4
Damage (C1-C6)	7 45 61 63 57 14
Crush (L and D)	82 -136
Object Contacted 1	LARGE POLE
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	8.578202209
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	CURB
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1996
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	168

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	MALE				
Ejection	No EJECTION				
Ejection Area	No EJECTION				
Entrapment	Not ENTRAPPED				

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-91-1-1
MAIS	0=None
Seat Position	Front left side

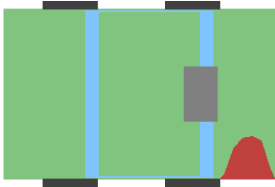
AIS Level	Injury Description	Contacts
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Occupant: 1997-49-91-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 4
CDC	0 L B A W 4
Damage (C1-C6)	7 45 61 63 57 14
Crush (L and D)	82 -136
Object Contacted 1	LARGE POLE
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	8.578202209
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	CURB
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1996
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	168

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	25	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-49-91-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

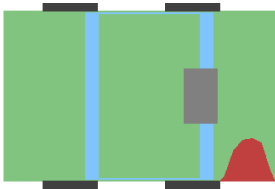
AIS Level	Injury Description	Contacts
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Occupant: 1997-49-91-1-3



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 4
CDC	0 L B A W 4
Damage (C1-C6)	7 45 61 63 57 14
Crush (L and D)	82 -136
Object Contacted 1	LARGE POLE
Object Contacted 2	ROLLOVER-OVERTRN

NASS Weighting Factor

Weighting factor	8.578202209
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	CURB
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1996
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	168

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	32	Height	158	Weight	30
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			Left REAR		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

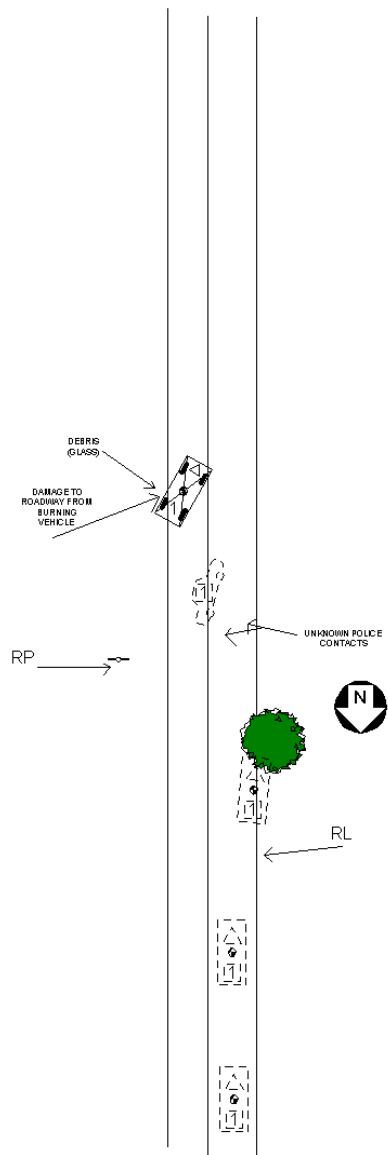
Occupant	1997-49-91-1-3
MAIS	5=Critical
Seat Position	Second middle

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Roof
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Roof
5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
3=Serious	Cerebral subarachnoid hemorrhage	Roof
3=Serious	Cerebellar subarachnoid hemorrhage	Roof
2=Moderate	Dislocation of atlanto-occipital	Roof
4=Severe	Cerebral intraventricular hemorrhage	Roof
4=Severe	Cerebral intraventricular hemorrhage	Roof
1=Minor	690402	Roof
2=Moderate	Clavicle fracture	Roof
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Left interior
3=Serious	Lung contusion NFS	Left interior
2=Moderate	Hepatic laceration NFS	Left interior
2=Moderate	Splenic laceration NFS	Left interior
1=Minor	Upper extremity skin abrasion	Roof

58 Case 1997-5-154

Summary:

V1 WAS TRAVELING SOUTHBOUND ON A TWO LANE UNDIVIDED ROADWAY. V1 LOST CONTROL AND IMPACTED A TREE WITH ITS RIGHT FRONT BUMPER AND THIS CAUSED V1 TO ROLLOVER ONTO ITS ROOF THEN TRAVELED TO FINAL REST. AT FINAL REST V1 CAUGHT ON FIRE DUE TO THE FUEL LINE BROKE AND THE CONTINUEING FLOW OF GAS MADE IT IMPOSSIBLE FOR THE DRIVER TO BE RESCUED. V1 WAS TOWED FROM THE SCENE AND ALL FOUR PASSENGERS WERE TRANSPORTED TO A LOCAL TRAUMA CENTER FOR TREATMENT. THE DRIVER WAS FATALLY INJURED IN THE ACCIDENT.



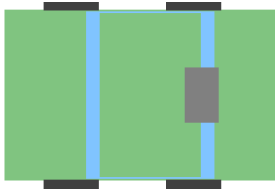
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1986	1	16	MALE	6=Maximum
1	4-DR SEDAN/HDTOP	Honda	Accord	1986	2	15	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Honda	Accord	1986	3	15	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Honda	Accord	1986	4	14	MALE	7=Unk. sev.
1	4-DR SEDAN/HDTOP	Honda	Accord	1986	5	16	MALE	2=Moderate

Occupant: 1997-5-154-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	37.727678508
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	LARGE TREE
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	1986
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	117

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	16	Height	168	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-5-154-1-1
MAIS	6=Maximum
Seat Position	Front left side

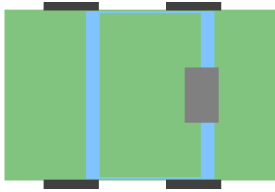
AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >901=Minor	Facial skin abrasion
Unknown SOURCE		
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Facial skin laceration, minor	Unknown SOURCE

Occupant: 1997-5-154-1-2



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	37.727678508
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	LARGE TREE
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	1986
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	117

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	15	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		None used/avail
AOPS		NO
Airbag Deployment		Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	1997-5-154-1-2
MAIS	1=Minor
Seat Position	Front right side

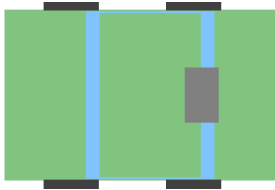
AIS Level	Injury Description	Contacts
1=Minor	Scalp injury, NFS	Unknown SOURCE

Occupant: 1997-5-154-1-3



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	37.727678508
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	LARGE TREE
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	1986
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	117

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	15	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-5-154-1-3
MAIS	1=Minor
Seat Position	Second left

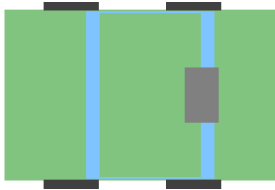
AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Wrist (carpus) joint sprain	Unknown SOURCE
1=Minor	Leg skin contusion (hematoma)	Unknown SOURCE

Occupant: 1997-5-154-1-4



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	37.727678508
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	LARGE TREE
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	1986
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	117

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	14	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		None used/avail
AOPS		NO
Airbag Deployment		Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	1997-5-154-1-4
MAIS	7=Unk. sev.
Seat Position	Second middle

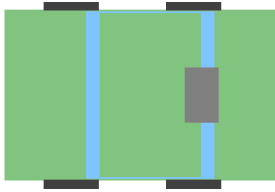
AIS Level	Injury Description	Contacts
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Occupant: 1997-5-154-1-5



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	37.727678508
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	LARGE TREE
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	1986
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	117

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	16	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		None used/avail
AOPS		NO
Airbag Deployment		Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

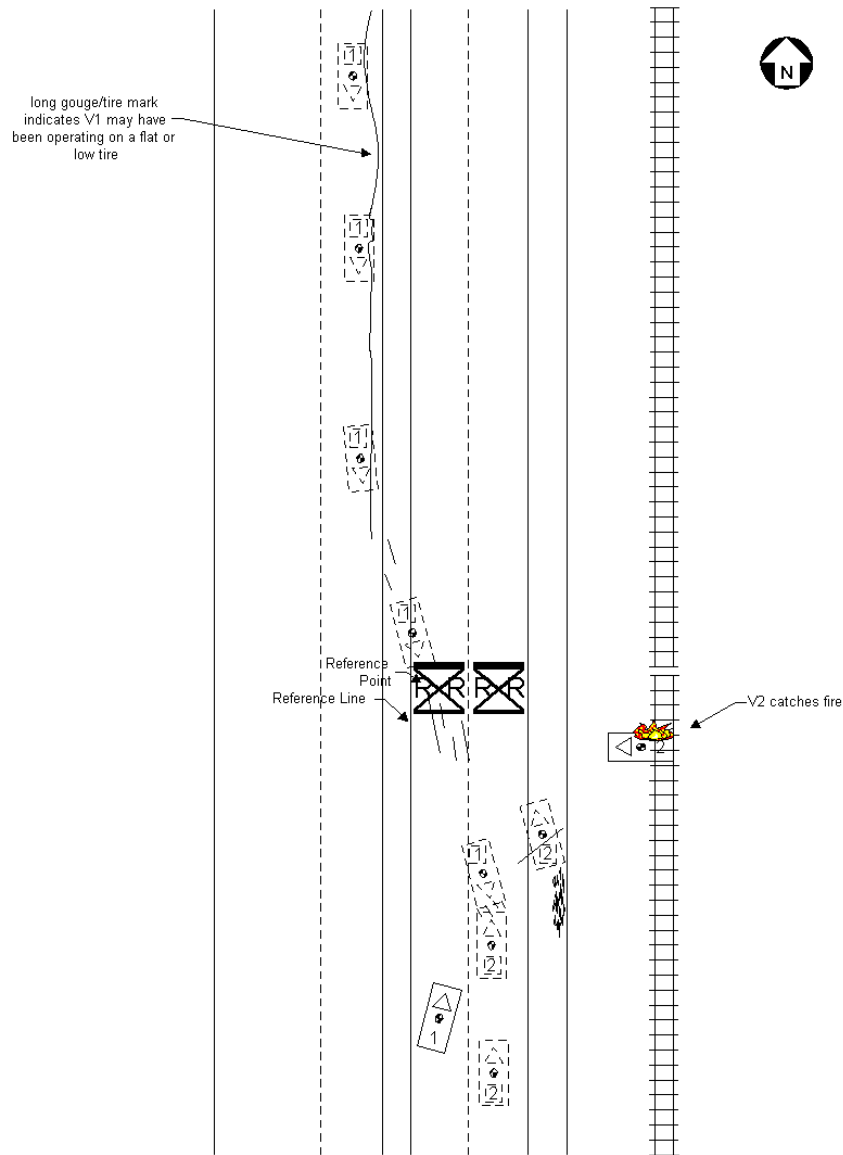
Occupant	1997-5-154-1-5
MAIS	2=Moderate
Seat Position	Second right

AIS Level	Injury Description	Contacts
2=Moderate	Carpus or metacarpus fracture	Unknown SOURCE
2=Moderate	Clavicle fracture	Unknown SOURCE
1=Minor	Scalp abrasion	Unknown SOURCE

59 Case 1997-6-165

Summary:

V1 was travelling south on a four-lane, two-way street which is divided by a raised concrete island. V2 was travelling north on the same street. While V1 was travelling in lane 2 the operator lost control, and the vehicle crossed over the center island. After crossing the center island V1 struck V2 in the front with it's front. V2 was travelling in the northbound curb lane. The impact caused V2 to rotate counter-clockwise and travel off the roadway to the right. V2 came to rest on railroad tracks east of the roadway, and caught fire. V1 came to rest in the roadway. A driver airbag in V2 deployed. All occupants of both vehicles suffered serious injuries. Both vehicles required towing.



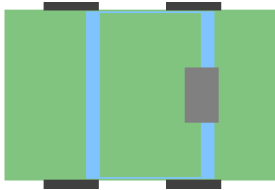
Vehicle #	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Isuzu	Stylus	1991	1	23	MALE	7=Unk. sev.
1	4-DR SEDAN/HDTOP	Isuzu	Stylus	1991	2	37	MALE	4=Severe
2	COMPACT UTILITY	GMC	Jimmy/S-15 based	1997	1	30	MALE	3=Serious

Occupant: 1997-6-165-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	36.607379158
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Isuzu Stylus
Year	1991
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	103

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	23	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-6-165-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

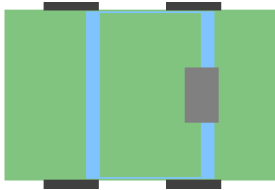
AIS Level	Injury Description	Contacts
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Occupant: 1997-6-165-1-2



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	36.607379158
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Isuzu Stylus
Year	1991
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	103

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	37	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-6-165-1-2
MAIS	4=Severe
Seat Position	Front right side

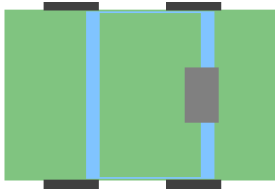
AIS Level	Injury Description	Contacts
4=Severe	Cerebral subdural hematoma, small (<50ccs)	Unknown SOURCE
2=Moderate	Scalp laceration, major (>10 cms and into sub-Q)	Unknown SOURCE
1=Minor	297602	Unknown SOURCE
2=Moderate	Shoulder dislocation (glenohumeral joint)	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
3=Serious	Basilar skull fracture, NFS	Unknown SOURCE
2=Moderate	Orbit fracture NFS	Unknown SOURCE
3=Serious	Cerebral subarachnoid hemorrhage	Unknown SOURCE
3=Serious	Cerebral contusions, multiple, unilateral but NFS	Unknown SOURCE
4=Severe	Cerebral brain swelling, moderate	Unknown SOURCE
3=Serious	Cervical lamina fracture, no cord injury	Unknown SOURCE
3=Serious	Cervical lamina fracture, no cord injury	Unknown SOURCE
2=Moderate	2-3 rib fractures with stable chest	Unknown SOURCE
3=Serious	Cervical facet fracture, no cord injury	Unknown SOURCE
3=Serious	Cervical facet fracture, no cord injury	Unknown SOURCE

Occupant: 1997-6-165-2-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	36.607379158
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	GMC Jimmy/S-15 based
Year	1997
Class	Unknown
Body Type	COMPACT UTILITY
Weight	175

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	30	Height	183	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

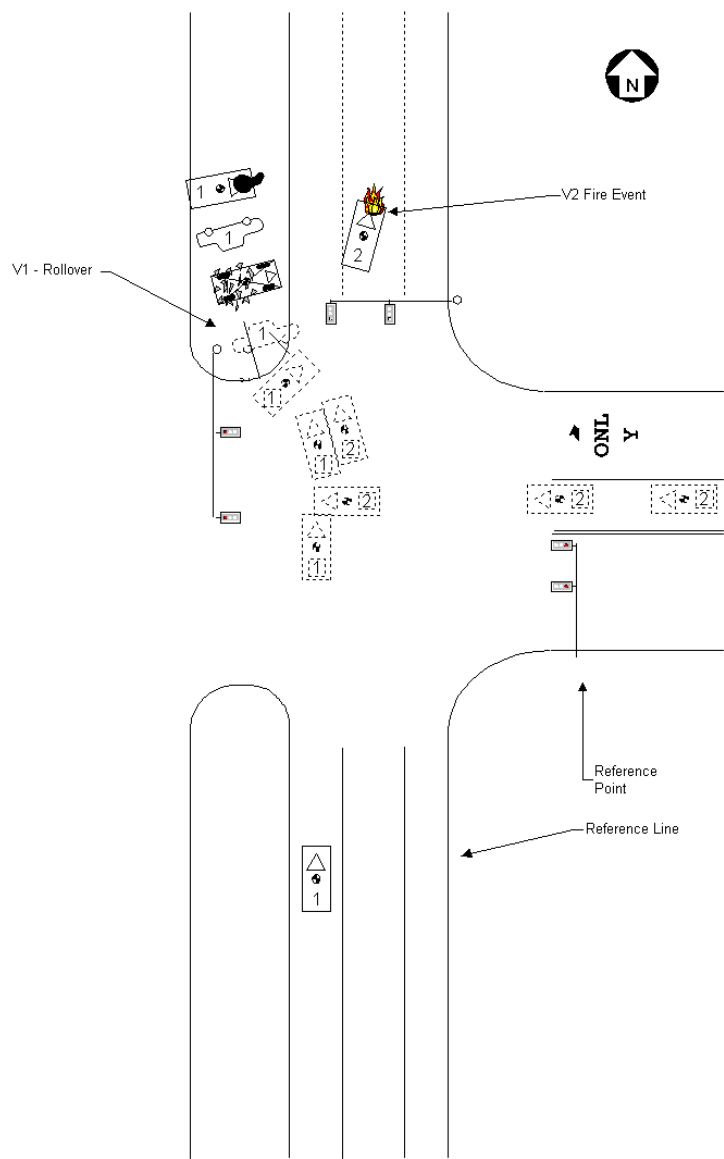
Occupant	1997-6-165-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Burn, 2nd or 3rd degree, 101=Minor	Upper extremity skin contusion
Unknown SOURCE		
1=Minor	Facial skin contusion	Unknown SOURCE
2=Moderate	Metatarsal or tarsal fracture	Unknown SOURCE
2=Moderate	Tibial fracture NFS	Unknown SOURCE
2=Moderate	Lower extremity injury with compartment syndrome	Unknown SOURCE
2=Moderate	Maxillary fracture, closed	Unknown SOURCE
2=Moderate	Zygoma fracture	Unknown SOURCE
2=Moderate	Orbit fracture, closed	Unknown SOURCE
2=Moderate	Nose fracture, open/displaced/comminuted	Unknown SOURCE
2=Moderate	Metatarsal or tarsal fracture	Unknown SOURCE
2=Moderate	Metatarsal or tarsal fracture	Unknown SOURCE

60 Case 1997-6-21

Summary:

Vehicle 1 was travelling north on a 3 -lane, one-way highway, approaching an intersection with a 3 -lane, two-way street. Vehicle 2 was travelling west on the two-way street. In the intersection, V1 struck V2 in the left side with it's front end. V1 then struck the curb for the median, causing V1 to rollover. V1 came to rest in the middle of the grassy median. V2 reportedly caught on fire. All 4 occupants of both vehicle were reported as seriously injured, and taken to a local trauma center. Both vehicles required towing.



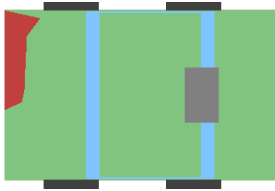
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Pontiac	Grand AM	1991	1	20	FEMALE-NOT PREG	2=Moderate
1	2DR SEDAN/HT/CPE	Pontiac	Grand AM	1991	2	22	MALE	2=Moderate
2	2DR SEDAN/HT/CPE	Nissan	200SX/240SX	1992	1	30	MALE	3=Serious
2	2DR SEDAN/HT/CPE	Nissan	200SX/240SX	1992	2	32	MALE	4=Severe

Occupant: 1997-6-21-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	40 -34 -20
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F R E W 2
Damage (C1-C6)	25 30 31 32 33 52
Crush (L and D)	146 50
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	20.261137997
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	10

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1991
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	113

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	20	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-6-21-1-1
MAIS	2=Moderate
Seat Position	Front left side

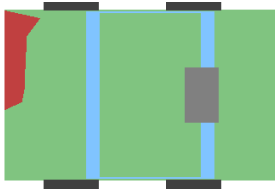
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Other occupants
1=Minor	Neck skin contusion (hematoma)	Head restraint
1=Minor	Thoracic skin contusion	Steering rim
1=Minor	Thoracic skin abrasion	Steering rim
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Abdominal skin contusion	Steering rim
1=Minor	Abdominal skin abrasion	Steering rim
1=Minor	Leg skin abrasion	Left apnel
2=Moderate	Clavicle fracture	Left interior

Occupant: 1997-6-21-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	10

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1991
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	113

Crash Severity

Nr. Quarter Turns	4 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	40 -34 -20
Est. δV with sequence number	DELTA V CODED 1
CDC	1 F R E W 2
Damage (C1-C6)	25 30 31 32 33 52
Crush (L and D)	146 50
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

Pre-Crash Driver Data

Accident Type	88
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	20.261137997
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PASSENGER Factors

Age	22	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-6-21-1-2
MAIS	2=Moderate
Seat Position	Front right side

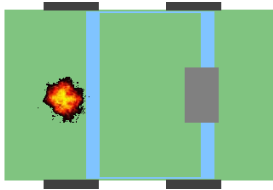
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin avulsion, superficial	Right wind glass
1=Minor	Upper extremity skin abrasion	Right panel
1=Minor	Leg skin abrasion	Right panel
2=Moderate	Awake on admission, prior unconscious, length NFS	Windshield
2=Moderate	Mandible fracture, open/displaced/comminuted	Steering rim

Occupant: 1997-6-21-2-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 -19 33
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	20.261137997
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	40

Vehicle Factors

Make-Model	Nissan 200SX/240SX
Year	1992
Class	Unknown
Body Type	2DR SEDAN/HT/CPE
Weight	122

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	30	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	VIN DET AUT BELT
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-6-21-2-1
MAIS	3=Serious
Seat Position	Front left side

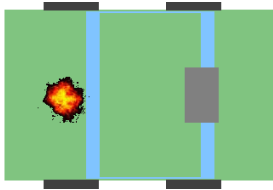
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Awake on admission, never unconscious	Unknown SOURCE
3=Serious	Lung contusion, unilateral	Unknown SOURCE

Occupant: 1997-6-21-2-2



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 -19 33
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	20.261137997
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	40

Vehicle Factors

Make-Model	Nissan 200SX/240SX
Year	1992
Class	Unknown
Body Type	2DR SEDAN/HT/CPE
Weight	122

Pre-Crash Driver Data

Accident Type	89
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	32	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	VIN DET AUT BELT
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

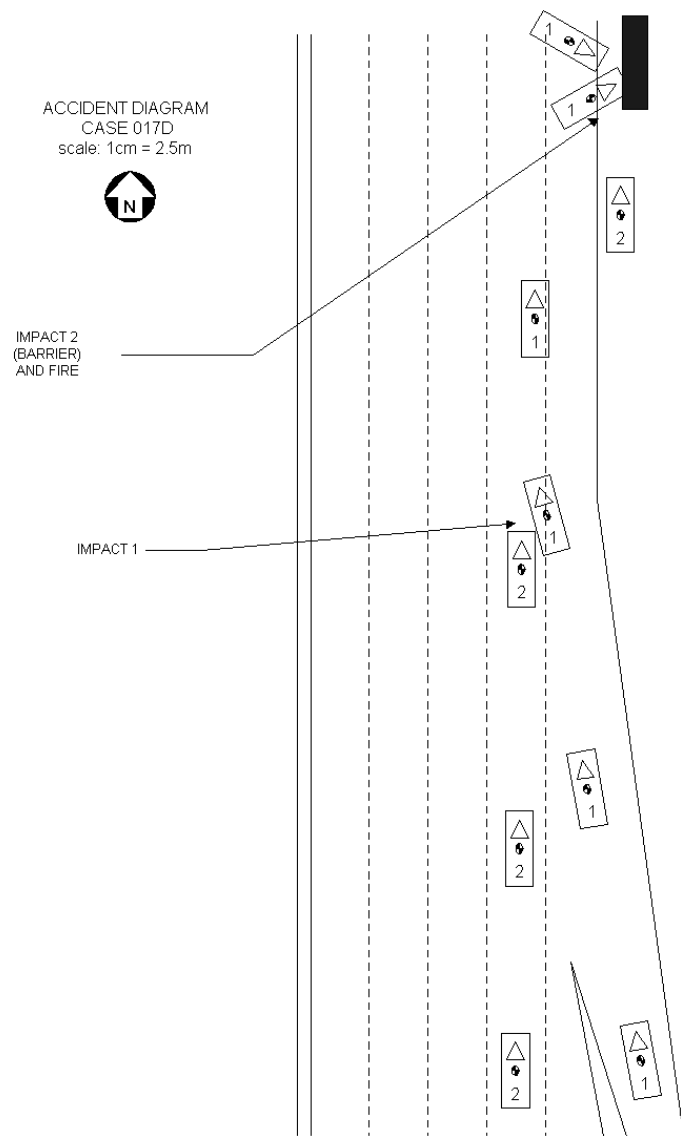
Occupant	1997-6-21-2-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Awake on admission, never unconscious	Unknown SOURCE
4=Severe	Basilar skull fracture, open, with brain tissue loss.	Unknown SOURCE
2=Moderate	Maxillary fracture NFS	Unknown SOURCE
2=Moderate	Nose fracture, open/displaced/comminuted	Unknown SOURCE
2=Moderate	Orbit fracture NFS	Unknown SOURCE

61 Case 1997-72-17

Summary:

VEHICLE ONE WAS NORTH BOUND MERGING FROM AN ON-RAMP ON A MULTI-LANE DIVIDED HIGHWAY. VEHICLE TWO WAS IN LANE TWO OF THE OF THE SAME HIGHWAY. VEHICLE ONE MERGED LEFT AND IMPACTED VEHICLE TWO'S FRONT PLANE WITH ITS OWN LEFT. VEHICLE ONE THEN ROTATED CW AND IMPACTED A CONCRETE TRAFFIC BARRIER ON THE RIGHT SIDE OF THE ROADWAY WITH ITS FRONT PLANE. VEHICLE 1 CAME TO REST PARTIALLY OFF THE EAST ROADEdge FACING SOUTHEAST. VEHICLE 2 WAS DRIVEN TO FINAL REST ON THE RIGHT SHOULDER. BOTH VEHICLES WERE TOWED DUE TO DAMAGE. THE DRIVER OF VEHICLE TWO RECEIVED "A" INJURIES AND WAS TRANSPORTED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Volvo	760/780	1983	1	LESS THAN ONE YR	MALE	0=None
2	4-DR SEDAN/HDTOP	Pontiac	Grand AM	1992	1	29	MALE	7=Unk. sev.

Occupant: 1997-72-17-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -21 -17
Est. δV with sequence number	DELTA V CODED 2
CDC	81 F D E W 2
Damage (C1-C6)	0 6 21 29 39 55
Crush (L and D)	168 0
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	VEHICLE NO. 2

NASS Weighting Factor

Weighting factor	341.88235028
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Volvo 760/780
Year	1983
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	135

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	MALE				
Ejection	No EJECTION				
Ejection Area	No EJECTION				
Entrapment	Not ENTRAPPED				

Restraint Factors

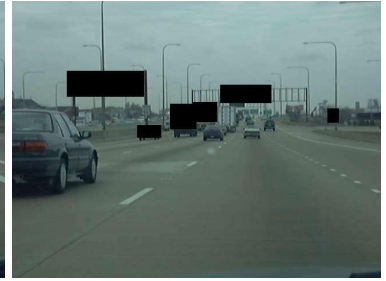
Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-72-17-1-1
MAIS	0=None
Seat Position	Front left side

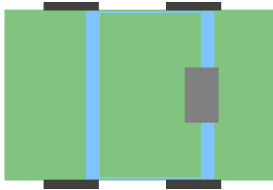
AIS Level	Injury Description	Contacts
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Occupant: 1997-72-17-2-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	15 -13 -6
Est. δV with sequence number	DELTA V CODED 1
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	341.88235028
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Pontiac Grand AM
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	126

Pre-Crash Driver Data

Accident Type	45
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	29	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	VIN DET AUT BELT
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

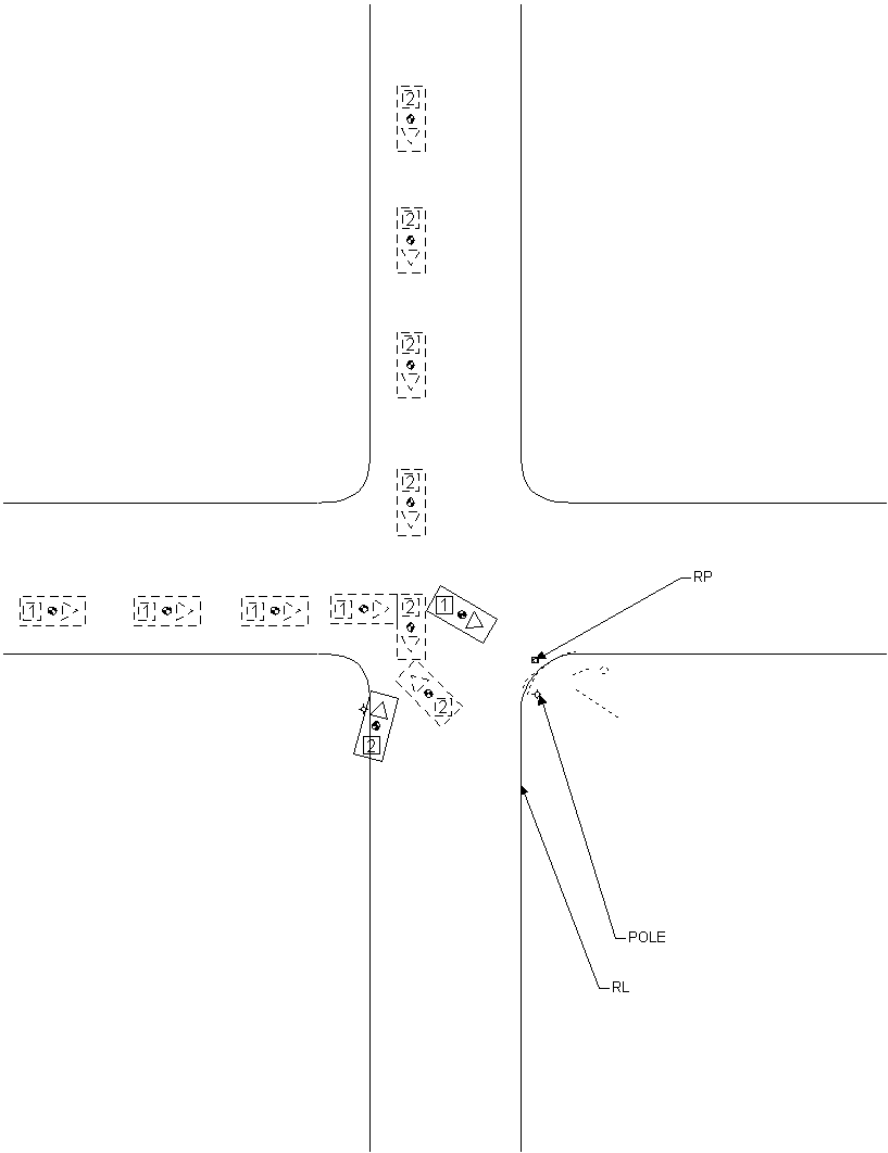
Occupant	1997-72-17-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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62 Case 1997-72-49

Summary:

VEHICLE ONE WAS TRAVELING WEST PASSING THROUGH AN INTERSECTION STRIKING VEHICLE TWO'S RIGHT SIDE TRAVELING SOUTH ALSO PASSING THROUGH THE INTERSECTION WITH ITS FRONT END. VEHICLE TWO THEN PROCEEDED TO ROLL OVER, ROTATE CLOCKWISE AND STRIKE A LIGHT POLE WITH ITS LEFT TOP. DRIVER OF VEHICLE ONE LEFT SCENE. DRIVER AND PASSENGER OF VEHICLE TWO WERE TRANSPORTED FROM THE SCENE. BOTH VEHICLE ONE AND TWO WERE TOWED DUE TO DAMAGE, VEHICLE ONE SUSTAINING A FIRE.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Buick	Special/Skylark	1980	1	LESS THAN ONE YR	Unknown	0=None
2	4-DR SEDAN/HDTOP	Volvo	240/242/244/245	1988	1	32	MALE	4=Severe
2	4-DR SEDAN/HDTOP	Volvo	240/242/244/245	1988	2	43	MALE	4=Severe

Occupant: 1997-72-49-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -16 27
Est. δV with sequence number	DELTA V CODED 1
CDC	70 F D E W 2
Damage (C1-C6)	22 22 25 28 28 34
Crush (L and D)	164 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	15.839619639
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Buick Special/Skylark
Year	1980
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	112

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	LESS THAN ONE YR	Height	0	Weight	0
Gender	Unknown	Ejection	No EJECTION	Ejection Area	No EJECTION
Entrapment	JAMMED DOOR/FIRE				

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-72-49-1-1
MAIS	0=None
Seat Position	Front left side

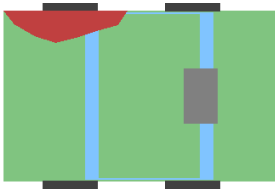
AIS Level	Injury Description	Contacts
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Occupant: 1997-72-49-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -20 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Y E W 3
Damage (C1-C6)	18 36 46 38 28 19
Crush (L and D)	183 55
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	15.839619639
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object	GROUND
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Volvo 240/242/244/245
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	133

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	32	Height	178	Weight	98
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-72-49-2-1
MAIS	4=Severe
Seat Position	Front left side

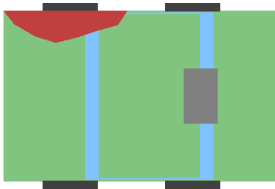
AIS Level	Injury Description	Contacts
4=Severe	Unconscious on admission, length NFS & neuro deficit	Roof
2=Moderate	Pelvic fracture, closed	Left apnel
3=Serious	Cerebral edema, mild (compressed ventricles w/o brain stem)	Roof
1=Minor	Upper extremity skin laceration, minor	Windshield

Occupant: 1997-72-49-2-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	998
Total, Longitudal, and Lateral δV	23 -20 -12
Est. δV with sequence number	DELTA V CODED 1
CDC	1 R Y E W 3
Damage (C1-C6)	18 36 46 38 28 19
Crush (L and D)	183 55
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	15.839619639
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Volvo 240/242/244/245
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	133

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	43	Height	183	Weight	104
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

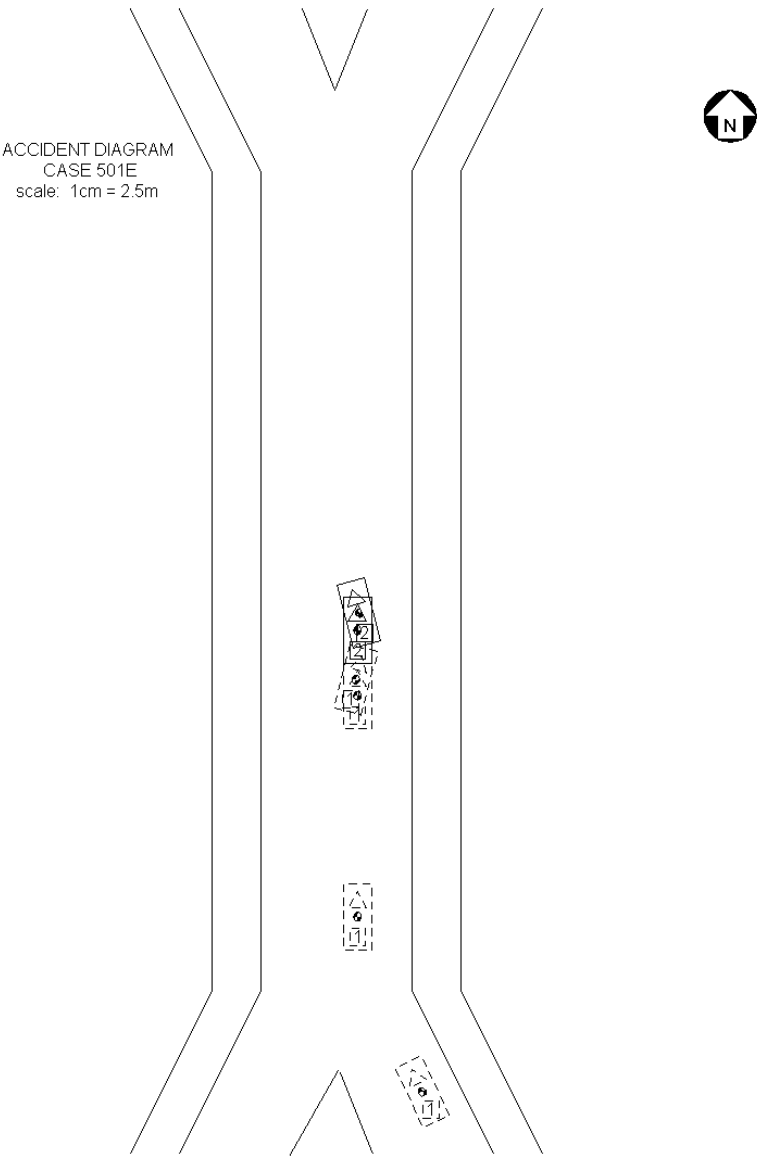
Occupant	1997-72-49-2-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
4=Severe	Lung contusion, bilateral	Right interior
2=Moderate	Clavicle fracture	Right interior
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Right interior
1=Minor	Upper extremity skin contusion	Right interior
1=Minor	Upper extremity skin laceration, minor	Windshield
1=Minor	Facial skin abrasion	Roof

63 Case 1997-72-501

Summary:

VEHICLE ONE TRAVELING NORTHBOUND IN THE FIRST LANE OF A ONE LANE, ONE WAY EXPRESSWAY ENTRANCE RAMP. VEHICLE TWO STALLED IN LANE ONE FACING NORTH IN SAME EXPRESSWAY RAMP. VEHICLE ONE CONTACTED VEHICLE TWO'S REAR END WITH ITS OWN FRONT END. AFTER INITIAL IMPACT VEHICLE ONE CAUGHT FIRE. VEHICLE ONE WAS TOWED FROM THE SCENE DUE TO DAMAGE AND THE DRIVER WAS TRANSPORTED TO HOSPITAL WITH A "C" INJURY. VEHICLE TWO WAS DRIVEN FROM THE SCENE AND THE DRIVER SUSTAINED A "C" INJURY AND WAS NOT TRANSPORTED.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Nissan	Altima	1995	1	38	FEMALE-NOT PREG	1=Minor

Occupant: 1997-72-501-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 -26 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 1
Damage (C1-C6)	3 5 15 17 11 11
Crush (L and D)	148 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Nissan Altima
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	129

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	0
Attempted Avoidance Maneuver	BRAKE W/ LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	38	Height	175	Weight	86
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

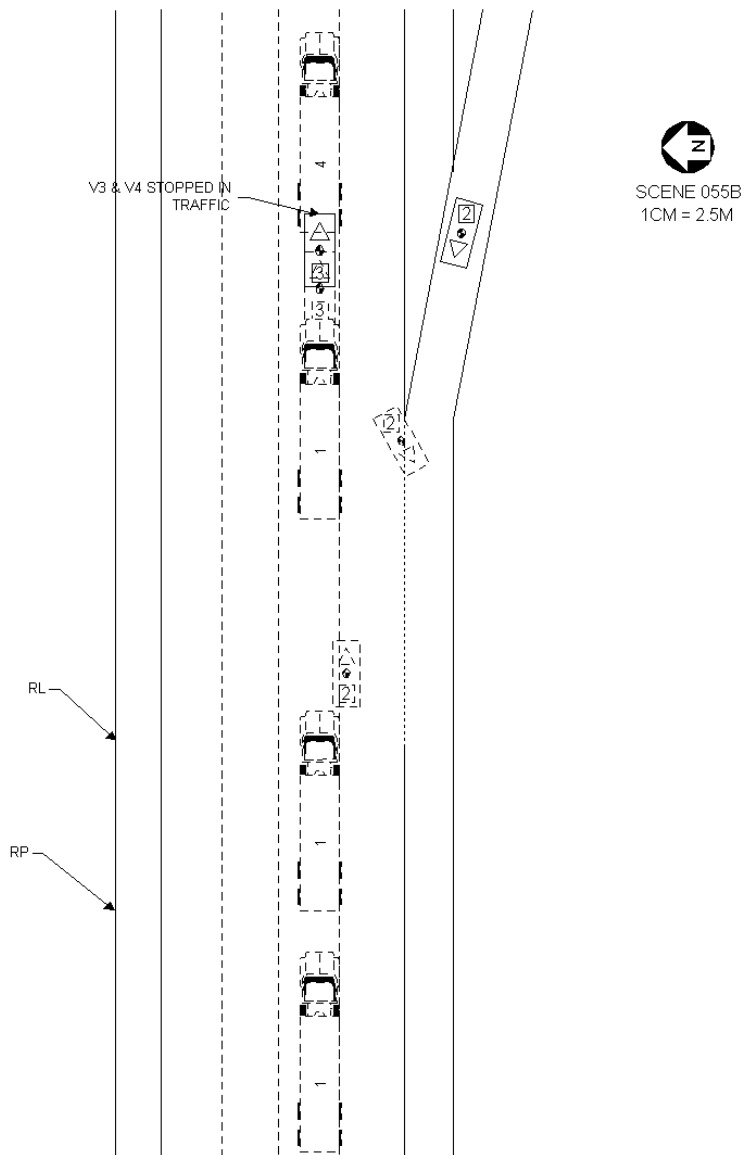
Occupant	1997-72-501-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Foot controls
1=Minor	Lumbar spine acute strain without fracture or dislocation	Other noncontact

64 Case 1997-72-55

Summary:

Vehicles one and two were traveling eastbound on a four lane divided expressway in the second travel lane. Vehicles three and four were stopped in traffic in the same travel lane facing the same direction. Vehicle two saw vehicle one coming up behind her at a high rate of speed and attempted to change lanes to the right. During this maneuver, vehicle one impacted vehicle two in the back plane with its' own front plane, causing vehicle two to rotate clockwise 180 degrees. Vehicle two came to rest facing westbound on the exit ramp to the right. Vehicle one continued eastbound and impacted vehicle three in the back plane with its' own front plane. Vehicle three then impacted vehicle four in the back with its' own front plane. Vehicles one, two, and three were towed from the scene, with vehicle three sustaining catastrophic damage. Vehicle four was driven from the scene. The drivers of vehicles one and two were reported to have "C" and "B" injuries respectively, and both refused transportation to the hospital. The driver of vehicle three was fatally injured. The passenger of vehicle three sustained "A" injuries and was transported to the hospital.



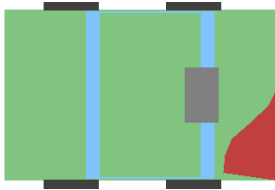
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	5DR/4DR HATCHBAK	VW	Golf	1986	1	26	FEMALE-NOT PREG	7=Unk. sev.
3	MINIVAN	Ford	Aerostar	1987	1	30	MALE	3=Serious
3	MINIVAN	Ford	Aerostar	1987	2	29	FEMALE-NOT PREG	2=Moderate

Occupant: 1997-72-55-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, right side
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Diesel



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Y A W 5
Damage (C1-C6)	78 76 66 37 12 0
Crush (L and D)	146 -26
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	5.7233155788
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Golf
Year	1986
Class	PASSENGER CAR
Body Type	5DR/4DR HATCHBAK
Weight	99

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	ACC+STEER RIGHT
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	26	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-72-55-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

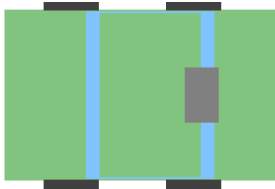
AIS Level	Injury Description	Contacts
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Occupant: 1997-72-55-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Abraded
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	6 B D A W 9
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 4

NASS Weighting Factor

Weighting factor	5.7233155788
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Aerostar
Year	1987
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	134

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	30	Height	170	Weight	66
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-72-55-3-1
MAIS	3=Serious
Seat Position	Front left side

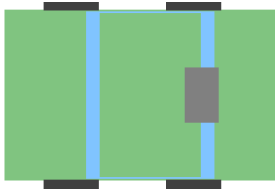
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Windshield
3=Serious	Cerebral subarachnoid hemorrhage	Front header
3=Serious	Dislocation of atlanto-axial joint (odontoid)	Front header
7=Unk. sev.	615099	Front header
3=Serious	Cervical odontoid (dens) fracture, no cord injury	Front header
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Upper extremity skin abrasion	Windshield
1=Minor	Upper extremity skin abrasion	Sterring hub
1=Minor	Facial skin avulsion, superficial	Windshld DR side
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Facial skin abrasion	Steering rim
1=Minor	297602	Windshield

Occupant: 1997-72-55-3-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Abraded
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 2
CDC	6 B D A W 9
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 4

NASS Weighting Factor

Weighting factor	5.7233155788
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Aerostar
Year	1987
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	134

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	29	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

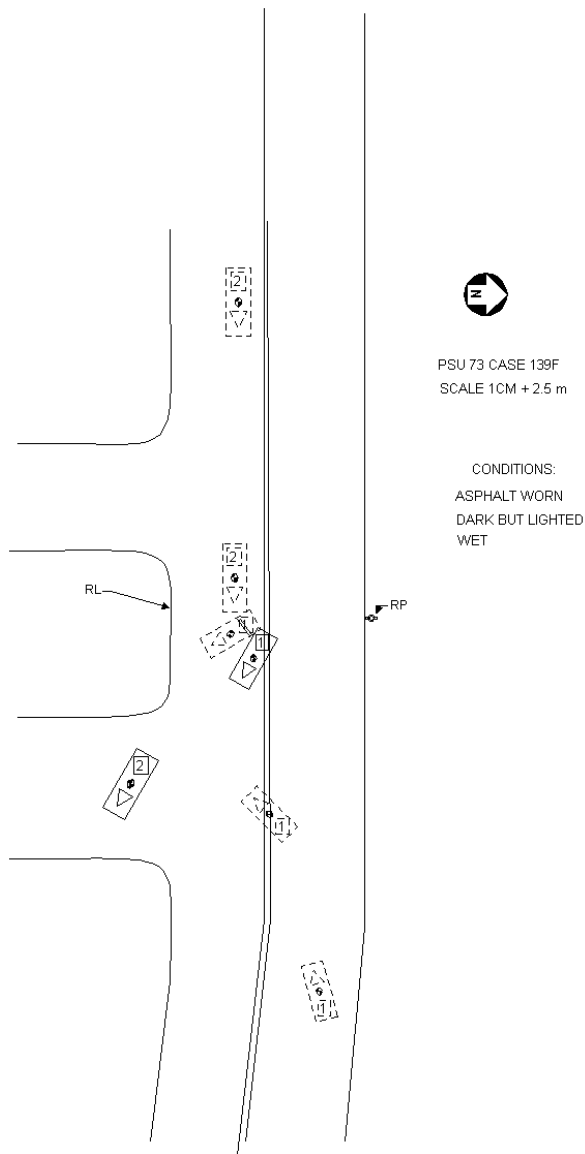
Occupant	1997-72-55-3-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Roof
1=Minor	Leg skin abrasion	Right interior
2=Moderate	Awake on admission, amnesia	Roof

65 Case 1997-73-139

Summary:

V1 was northbound negotiating a left curve on a wet roadway. V2 was eastbound on the same roadway approaching the curve. V1 lost control and started to rotate counterclockwise. As V1 rotated, it crossed the center line and entered into the eastbound lanes. V2 struck V1 in the right side with the front of V2. V1 came to rest in the center of the road facing southeast. V2 continued forward and stopped in a driveway on the south side. V1 was towed due to damage. V2 was not towed.



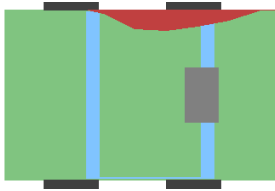
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Ford	Escort/EXP	1990	1	38	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1997-73-139-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Escort/EXP
Year	1990
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	102

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	35 18 -30
Est. δV with sequence number	DELTA V CODED 1
CDC	4 R Z E W 2
Damage (C1-C6)	4 27 29 23 14 0
Crush (L and D)	277 -42
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

NASS Weighting Factor

Weighting factor	840.89789408
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	38	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

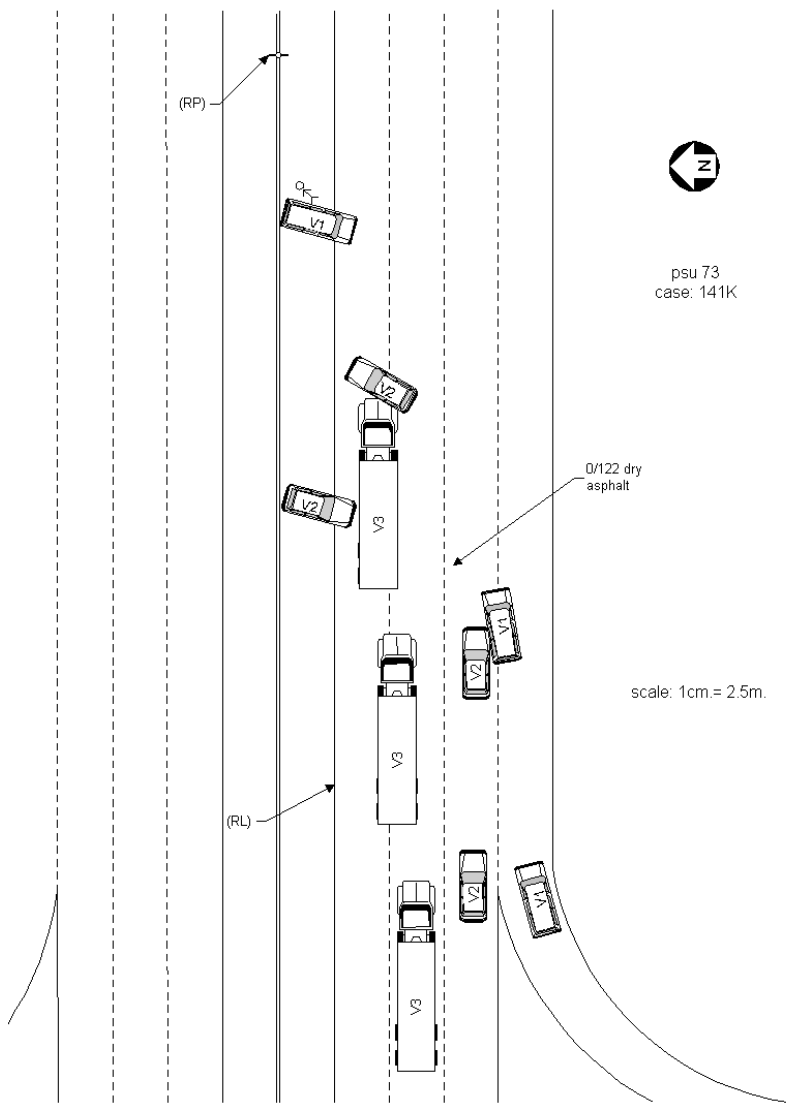
Occupant	1997-73-139-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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66 Case 1997-73-141

Summary:

V1 was traveling east attempting to merge into the eastbound lanes of a two way, divided highway from an entrance ramp. V2 was traveling east in the first eastbound lane of the same highway. V3 was traveling east in the second eastbound lane. V1 struck V2 on the right front corner with the left side. V2 rotated off the initial impact across the travel lanes and struck the center divider wall resulting in rear damage. At this point V2 rebounded off the wall back into the travel lanes into the path of V3. V3 struck V2 on the left side with the front end. V2 came to rest partially on the north shoulder facing southwest. V1 rotated counter-clockwise off the initial impact with V2 into the center divider wall, striking it with the rear end and ejecting a passenger through the left rear window. V1 came to rest in close proximity to the center divider wall facing southeast. V1 was occupied by the driver and two passengers. One of the V1 passengers was fully ejected. V2 was occupied by the driver only. All the occupants of V1 and V2 were reported injured and transported to an area hospital for treatment. V1, V2, and V3 were all towed from the crash scene due to damage.



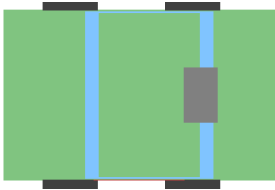
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Chevrolet	Astrovan	1993	1	56	MALE	3=Serious
1	MINIVAN	Chevrolet	Astrovan	1993	2	11	MALE	1=Minor
1	MINIVAN	Chevrolet	Astrovan	1993	3	12	MALE	4=Severe
2	5DR/4DR HATCHBAK	Plymouth	Horizon	1989	1	24	MALE	3=Serious

Occupant: 1997-73-141-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	30

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>9 AND <25 KMPH 1
CDC	8 L P E W 3
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	23.494085246
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Astrovan
Year	1993
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	192

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	MERGING
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	56	Height	0	Weight	77
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-73-141-1-1
MAIS	3=Serious
Seat Position	Front left side

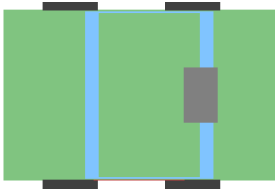
AIS Level	Injury Description	Contacts
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Left interior
3=Serious	Lung laceration, unilateral NFS	Left interior
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Upper extremity skin abrasion	Flying glass
1=Minor	Leg skin abrasion	Flying glass

Occupant: 1997-73-141-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	30

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>9 AND <25 KMPH 1
CDC	8 L P E W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	23.494085246
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Astrovan
Year	1993
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	192

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	MERGING
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	11	Height	0	Weight	32
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-73-141-1-2
MAIS	1=Minor
Seat Position	Front right side

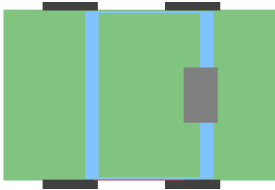
AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Int loose obj
1=Minor	Upper extremity skin contusion	Seat, back

Occupant: 1997-73-141-1-3



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	30

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>9 AND <25 KMPH 1
CDC	8 L P E W 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	23.494085246
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Astrovan
Year	1993
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	192

Pre-Crash Driver Data

Accident Type	47
Pre-event Movement	MERGING
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	12	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Left REAR
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-73-141-1-3
MAIS	4=Severe
Seat Position	Second middle

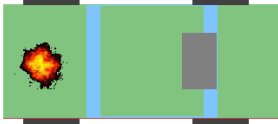
AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin laceration, minor	Left window fram
3=Serious	Femoral shaft fracture	Ground
3=Serious	Tibial shaft fracture, open/displaced/comminuted	Ground
2=Moderate	Fibular head, neck, or shaft fracture	Ground
4=Severe	Unconscious on admission, moves appropriately only to pain	Ground

Occupant: 1997-73-141-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	>54 KMPH 3
CDC	88 L D A W 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 3
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	23.494085246
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Plymouth Horizon
Year	1989
Class	PASSENGER CAR
Body Type	5DR/4DR HATCHBAK
Weight	104

Pre-Crash Driver Data

Accident Type	45
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV RGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	24	Height	0	Weight	88
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

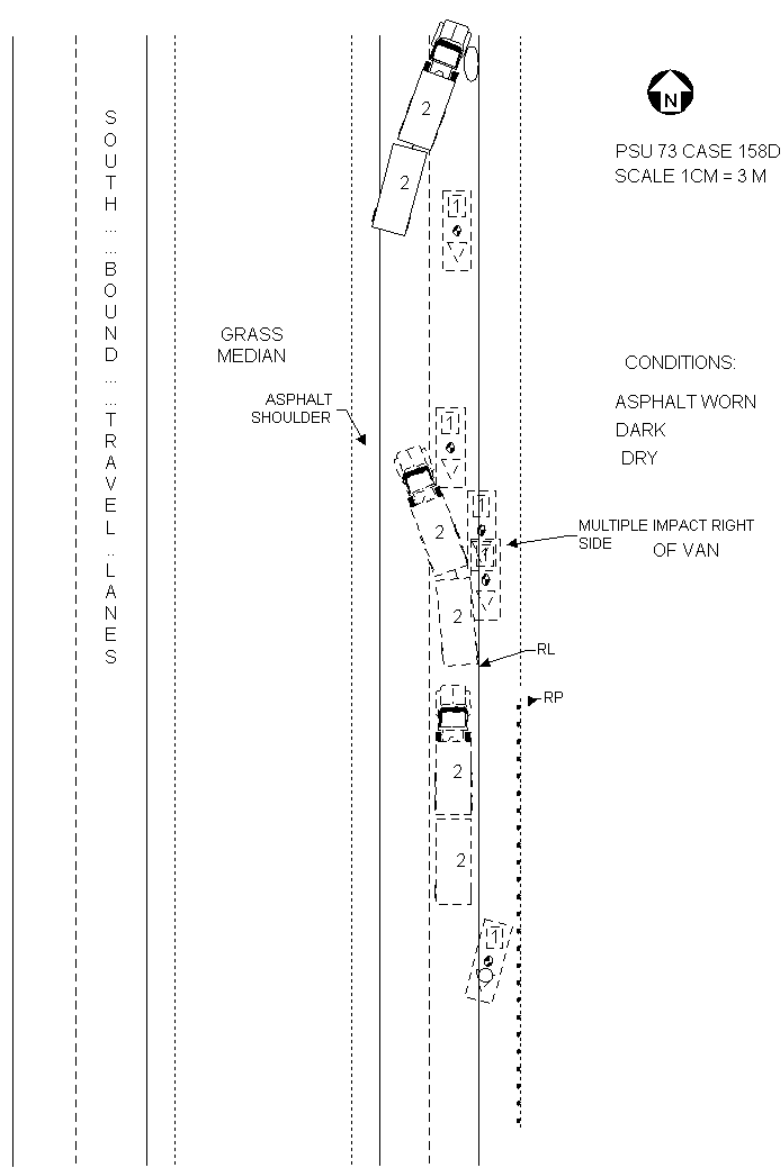
Occupant	1997-73-141-2-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Hip joint dislocation involving articular cartilage	Left apnel
3=Serious	Radial fracture, open/displaced/comminuted	Center panel
2=Moderate	Wrist (carpus) joint dislocation (radio/inter/peri-carpal)	Center panel
1=Minor	Leg skin abrasion	Left interior
1=Minor	Upper extremity skin abrasion	Center panel

67 Case 1997-73-158

Summary:

V1 was southbound in the northbound outside lane on an interstate. V2 was northbound in the outside lane of the same interstate. V2 swerved left to avoid V1 but the front of V1 collided with the front of V2. V1 continued down the side of V2 striking the tractor and both trailers causing multiple impacts. The right side of V1 was sheared off from the impacts. V1 then caught on fire. The front half of V1 burned down to the metal interior components. V1 came to rest on the shoulder of the northbound lanes facing south. V2 came to rest in the outside northbound lane facing north. Both vehicles were towed due to damage. The driver of V1 was burned extensively and was transported to an area hospital for treatment. The driver of V1 was subsequently air lifted to an out of state trauma center. The driver of V2 was not injured.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE VAN	Dodge	B-series Van	1983	1	39	MALE	5=Critical

Occupant: 1997-73-158-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	12 F D A W 9
Crush (L and D)	0 34 82 90 101 121
Object Contacted 1	180 11
Object Contacted 2	VEHICLE NO. 2
	0

NASS Weighting Factor

Weighting factor	381.5439444
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	15

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1983
Class	TRUCK
Body Type	LARGE VAN
Weight	189

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	39	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-73-158-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Burn, 2nd or 3rd degree, 403=Serious	Thoracic cavity injury with hemo-/pneumothorax
Unknown SOURCE		

68 Case 1997-73-19

Summary:

Vehicle 1 was attempting to pull out of a entrance/exit across the westbound traffic lanes of a four lane, two way divided highway. Vehicle 1 was intending to enter the eastbound lanes of the highway. Vehicle 2 was traveling west in the second westbound lane of the highway. The two vehicles collided sending Vehicle 2 diagonally across the eastbound lanes off the roadway. Vehicle 2 struck the corner fence post of a parking lot entrance and a landscped dirt mound boardered by railroad ties. Vehicle 2 came to rest next to the fence with the front end up on the dirt mound. Vehicle 2 sustained damage down the right side from the initial impact with Vehicle 1. The front left corner was damaged from the fence post impact and the front bumper and undercarriage was damaged from the dirt mound. Vehicle 1 came to final rest in the same general area as impact slightly rotated clockwise. Vehicle 1 sustained damage to the entire front end. The bumper was completely torn off from the vehicle. Each vehicle was occuppied by a driver only. There were no passengers in either vehicle. The driver of Vehicle 1 was wearing a lap and shoulder seatbelt. The driver of Vehicle 2 was not belted. The driver of Vehicle 2 was reported injured and transported to an area hospital for treatment. Both vehicles were towed from the accident scene due to damage.



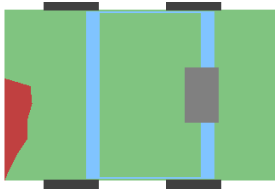
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	5DR/4DR HATCHBAK	Dodge	Lancer	1988	1	23	FEMALE-NOT PREG	0=None
2	LARGE VAN	Dodge	B-series Van	1983	1	40	MALE	1=Minor

Occupant: 1997-73-19-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	22 -11 19
Est. δV with sequence number	DELTA V CODED 1
CDC	70 F D E W 2
Damage (C1-C6)	6 18 34 33 40 38
Crush (L and D)	150 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	1003.1423935
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Lancer
Year	1988
Class	PASSENGER CAR
Body Type	5DR/4DR HATCHBAK
Weight	121

Pre-Crash Driver Data

Accident Type	82
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	23	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-73-19-1-1
MAIS	0=None
Seat Position	Front left side

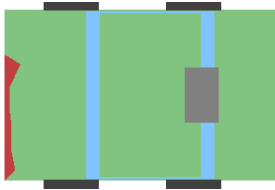
AIS Level	Injury Description	Contacts
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Occupant: 1997-73-19-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	DRIVEWAY RELATED
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 3
CDC	12 F D E W 3
Damage (C1-C6)	16 9 10 7 8 23
Crush (L and D)	186 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	1003.1423935
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge B-series Van
Year	1983
Class	TRUCK
Body Type	LARGE VAN
Weight	163

Pre-Crash Driver Data

Accident Type	83
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	DRIVWAY-OPP DIR
Attempted Avoidance Manuever	BRAKE+STEER LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	40	Height	173	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

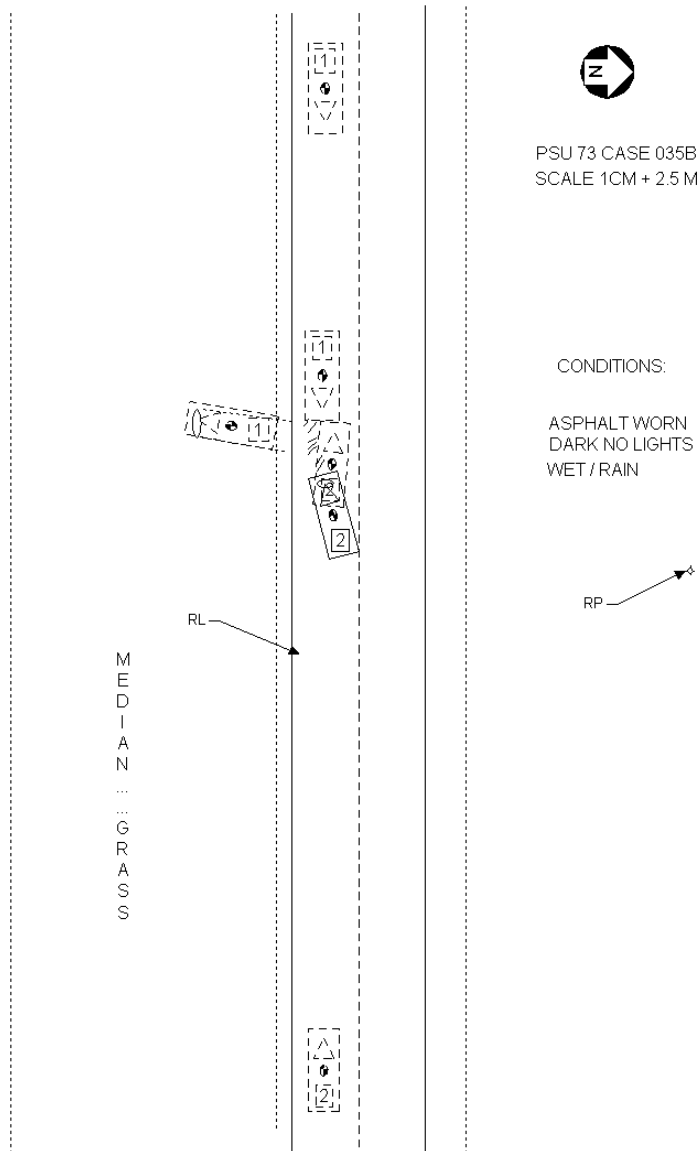
Occupant	1997-73-19-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Steering rim
1=Minor	Facial skin contusion	Steering rim
1=Minor	Upper extremity skin contusion	Seat, back

69 Case 1997-73-35

Summary:

V1 WAS TRAVELING EAST IN THE WESTBOUND LANES OF A MAJOR FOUR LANE DIVIDED HIGHWAY. V2 WAS TRAVELING WEST IN THE WESTBOUND LANES ON THE SAME HIGHWAY. V1 AND V2 HAD A HEAD ON COLLISION IN THE INSIDE LANE OF THE WESTBOUND LANES. AFTER A SEVERE IMPACT, V1 ROTATED COUNTERCLOCKWISE 90 DEGREES TO FINAL REST HALF ON THE SHOULDER AND HALF ON THE BERM. V2 STAYED IN THE TRAVEL LANE AND ROTATED SLIGHTLY COUNTERCLOCKWISE. BOTH VEHICLES SUSTAINED SEVERE DAMAGE AND WERE TOWED. THE DRIVER OF V1 AND THE DRIVER OF V2 WERE BOTH PRONOUNCED DEAD AT THE SCENE OF THE ACCIDENT. THERE WERE NO PASSENGERS.



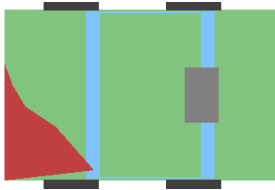
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Chevrolet	C/K-series Pickup	1982	1	75	MALE	6=Maximum
2	4-DR SEDAN/HDTOP	Ford	Fairlane	1963	1	33	MALE	5=Critical

Occupant: 1997-73-35-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	83
Total, Longitudal, and Lateral δV	70 -70 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 5
Damage (C1-C6)	130 103 75 30 12 0
Crush (L and D)	186 -38
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	24.523661492
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet C/K-series Pickup
Year	1982
Class	TRUCK
Body Type	LARGE PICKUP
Weight	164

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Oth CRIT EVENT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	75	Height	188	Weight	122
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-73-35-1-1
MAIS	6=Maximum
Seat Position	Front left side

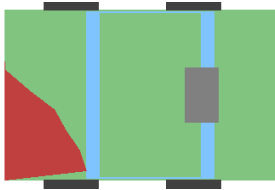
AIS Level	Injury Description	Contacts
4=Severe	Lung contusion, bilateral	Steering comb
3=Serious	Mesenteric laceration, major (blood loss >201=Minor	Facial skin abrasion
Windshield		
1=Minor	Facial skin abrasion	Windshld DR side
1=Minor	Thoracic skin abrasion	Steering comb
1=Minor	Abdominal skin abrasion	Steering comb
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Floor
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Steering comb
2=Moderate	Dislocation of atlanto-occipital	Windshld DR side
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Windshld DR side
3=Serious	Cerebellar subarachnoid hemorrhage	Windshld DR side
6=Maximum	Brain stem laceration	Windshld DR side

Occupant: 1997-73-35-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	87
Total, Longitudal, and Lateral δV	85 -85 7
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 7
Damage (C1-C6)	121 110 91 74 37 2
Crush (L and D)	176 -30
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	24.523661492
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DARK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Fairlane
Year	1963
Class	Unknown
Body Type	4-DR SEDAN/HDTOP
Weight	135

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

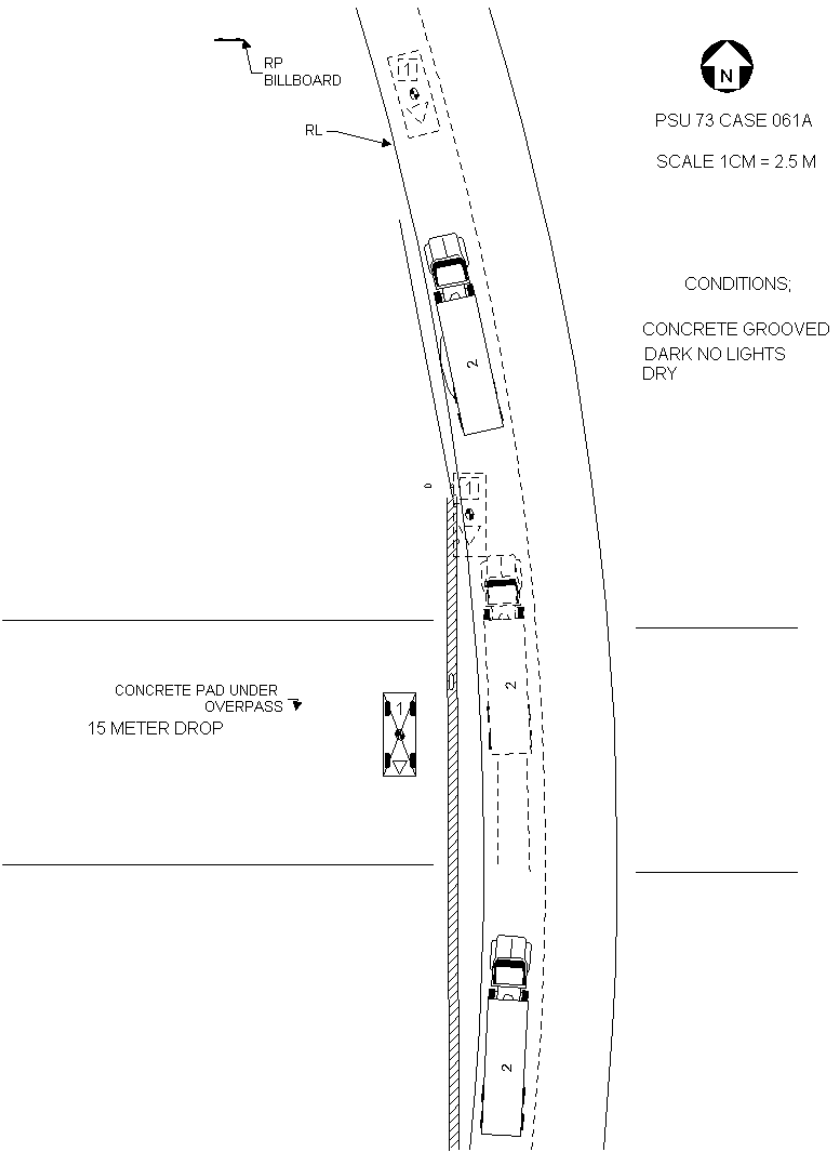
Age	33	Height	183	Weight	104
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors		AIS Level	In- Con- juncts De- scrip- tion
Restrain	None used/avail	4=Severe	Lung steering comb tu- sion, bi- lat- eral Myo lac-comb er- a- tion with per- fo- ra- tion (+/-
AOPS	NO		
Airbag Deployment	Not EQUIP/AVAIL		
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL		
Airbag Deployment - Oth	Not EQUIP W/ OTH		
Seat			
Injuries			
Occupant	1997-73-35-2-1	5=Critical	tam- pon- ade) Vena cava lac- er- er- a- a- tion, tion,ma- major jor (<503- (com- plete trans- sect or EBL>204- Femoral shaft fracture >3 Steering rib comb fxs on one side & <3 other side & hemo-
MAIS	5=Critical		
Seat Position	Front left side		
		4=Severe	

70 Case 1997-73-61

Summary:

V1 was southbound in the northbound lanes of a four lane divided interstate. V2 was northbound on the same interstate in the left lane. V1 was approaching an overpass and the oncoming truck. V1's left front collided with V2's left front. V1 was forced over the concrete guardrail of the overpass which caused V1 to fall 15 meters to a concrete platform below. V1 landed on the roof causing the truck to fly apart. V1 was winched up in pieces from the top of the overpass. Both vehicles were towed from the scene. The driver and passenger of V1 were pronounced dead at the scene. The driver side airbag deployed during the crash.



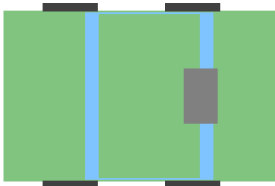
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Dodge	"D,W-series "	1995	1	39	MALE	6=Maximum
1	LARGE PICKUP	Dodge	"D,W-series "	1995	2	29	MALE	4=Severe

Occupant: 1997-73-61-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	12 F L A E 9
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	29.264726466
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	CLIMB-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	BRIDGE
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge "D,W-series "
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	184

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	0
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	39	Height	178	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-73-61-1-1
MAIS	6=Maximum
Seat Position	Front left side

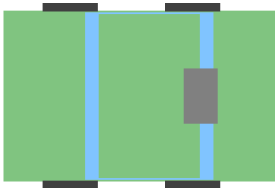
AIS Level	Injury Description	Contacts
6=Maximum	Head injury, crush (massive destruction of skull and brain)	Roof
1=Minor	Upper extremity skin abrasion	Roof
1=Minor	Thoracic skin abrasion	Air bag-DR side
2=Moderate	Upper extremity skin laceration, major (>10 cms hand or >20c	Roof left rail
1=Minor	Upper extremity skin abrasion	OMV unk exterior
3=Serious	Ulnar fracture, open/displaced/comminuted	OMV unk exterior
1=Minor	Leg skin laceration, minor	Left hardware
1=Minor	Abdominal skin abrasion	Left interior
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Rib cage contusion	Air bag-DR side
2=Moderate	2-3 rib fractures with stable chest	Steering comb

Occupant: 1997-73-61-1-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	2 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	12 F L A E 9
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	29.264726466
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	CLIMB-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	BRIDGE
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	UNDERCARRIAGE
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge "D,W-series "
Year	1995
Class	TRUCK
Body Type	LARGE PICKUP
Weight	184

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	0
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	29	Height	188	Weight	149.5KG AND OVER
Gender	MALE				
Ejection	COMPLETE EJECT				
Ejection Area	No EJECTION				
Entrapment	Not ENTRAPPED				

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

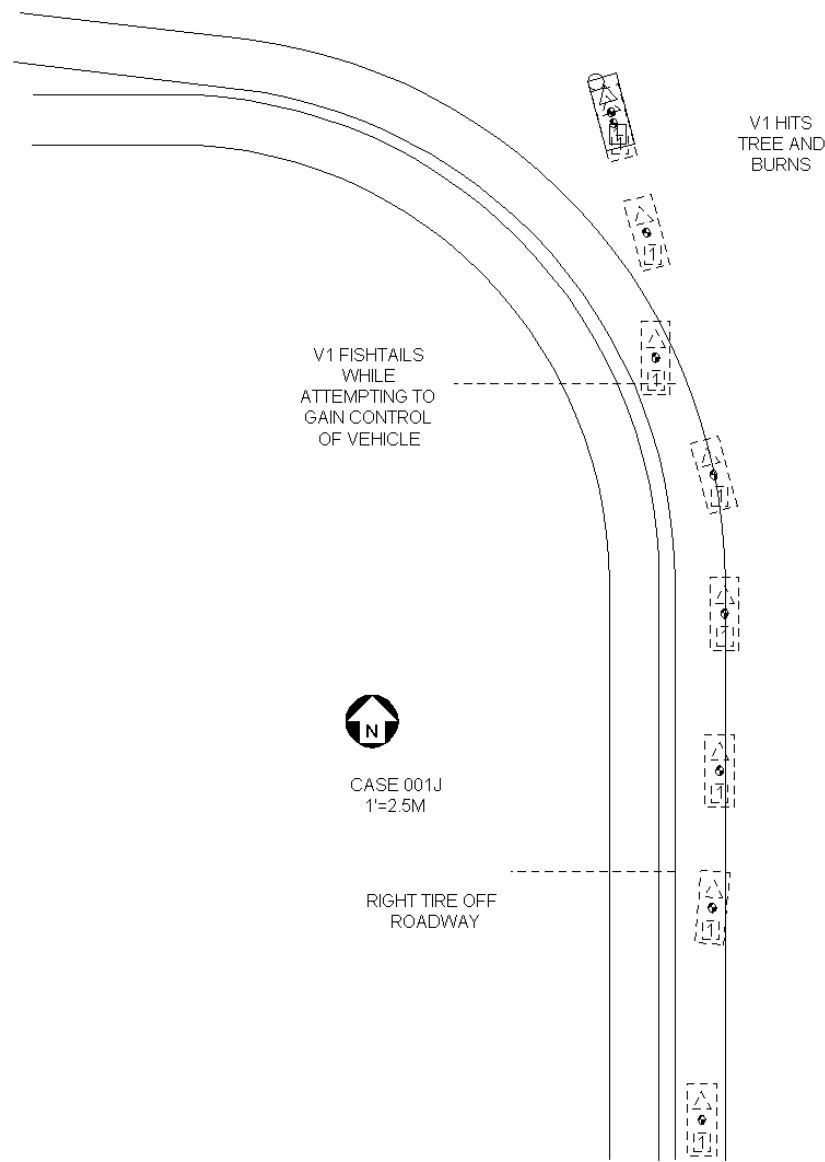
Injuries

Occupant	1997-73-61-1-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Right panel
2=Moderate	Nose fracture, open/displaced/comminuted	Reinforced wndsh
2=Moderate	Maxillary fracture NFS	Reinforced wndsh
1=Minor	Mandible fracture NFS	Reinforced wndsh
1=Minor	Teeth fracture	Reinforced wndsh
1=Minor	Facial skin abrasion	Reinforced wndsh
1=Minor	Leg skin abrasion	Glove door
3=Serious	Humeral fracture, open/displaced/comminuted	Roof
2=Moderate	Tongue laceration, deep or extensive	Unknown SOURCE
3=Serious	Lung contusion NFS	Right panel
1=Minor	Scalp contusion	Reinforced wndsh
3=Serious	Cerebral contusion, NFS	Reinforced wndsh
4=Severe	Cerebral hematoma, NFS	Reinforced wndsh
3=Serious	Cerebral edema, NFS	Reinforced wndsh

71 Case 1997-74-1

Summary:
VEHICLE #1 WAS HEADING NORTH ON A TWO LANE UNDIVIDED ROADWAY WHEN THE DRIVER LOST CONTROL OF THE VEHICLE AND DEPARTED THE RIGHT SIDE OF THE ROADWAY. V1 STRUCK A TREE WITH THE FRONT BUMPER AND THE VEHICLE CAUGHT FIRE. VEH 1 WAS TOWED AND THE DRIVER WAS TRANSPORTED TO THE HOSPITAL



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	UTILITY STAWAGON	Jeep	Gr Wagoneer	1993	1	50	FEMALE-NOT PREG	2=Moderate

Occupant: 1997-74-1-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol
Presence	No ALCOHOL
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	31 -31 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	36 37 27 17 11 0
Crush (L and D)	155 -51
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	12.8992908
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep Gr Wagoneer
Year	1993
Class	Unknown
Body Type	UTILITY STAWAGON
Weight	162

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Maneuver	BRAKE+STEER LEFT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	50	Height	155	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

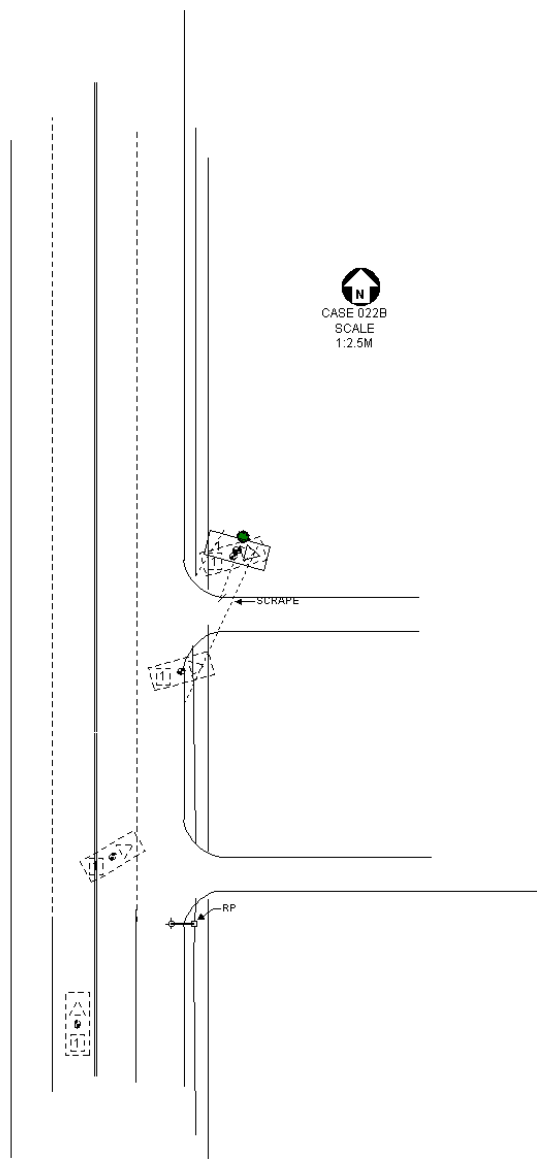
Injuries

Occupant	1997-74-1-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Talus fracture	Foot controls
1=Minor	Ankle joint contusion	Foot controls
1=Minor	Leg skin laceration, minor	Foot controls
2=Moderate	Ankle joint dislocation NFS	Foot controls

72 Case 1997-74-22

Summary:
DRIVER WAS HEADED NORTH ON A 4 LANE UNDIVIDED STREET. THE DRIVER LOST CONTROL, AND THE VEHICLE LEFT THE ROADWAY ON THE RIGHT. THE VEHICLE STRUCK A TREE ON THE RIGHT SIDE OF THE ROAD EDGE. THE VEHICLE WAS TOWED DUE TO DAMAGE, THE DRIVER WAS KILLED IN THE ACCIDENT.



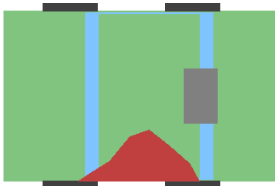
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1971	1	35	MALE	5=Critical

Occupant: 1997-74-22-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	43
Total, Longitudal, and Lateral δV	40 7 39
Est. δV with sequence number	DELTA V CODED 1
CDC	89 L P A W 4
Damage (C1-C6)	11 29 66 75 52 26
Crush (L and D)	178 -20
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	14.037127404
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	WET
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	16

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1971
Class	PASSENGER CAR
Body Type	LARGE PICKUP
Weight	162

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	35	Height	185	Weight	125
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-74-22-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level

3=Serious

4=Severe

2=Moderate

2=Moderate

3=Serious

Thoracic skin abrasion

1=Minor

1=Minor

5=Critical

Injury Description

Basilar skull fracture, without CSF leak

>3 rib fxs on each side, stable chest

Clavicle fracture
Pericardial laceration (puncture)

Vena cava laceration, minor (incomplete transect or EBL<202=Moderate

Left interior

Abdominal skin abrasion

Upper extremity skin laceration, minor

Lung laceration, unilateral, with massive air leak

Contacts

Left B pillar

Left interior

Left B pillar

Left interior

Hepatic laceration, minor (<3cms deep, EBL<201=Minor

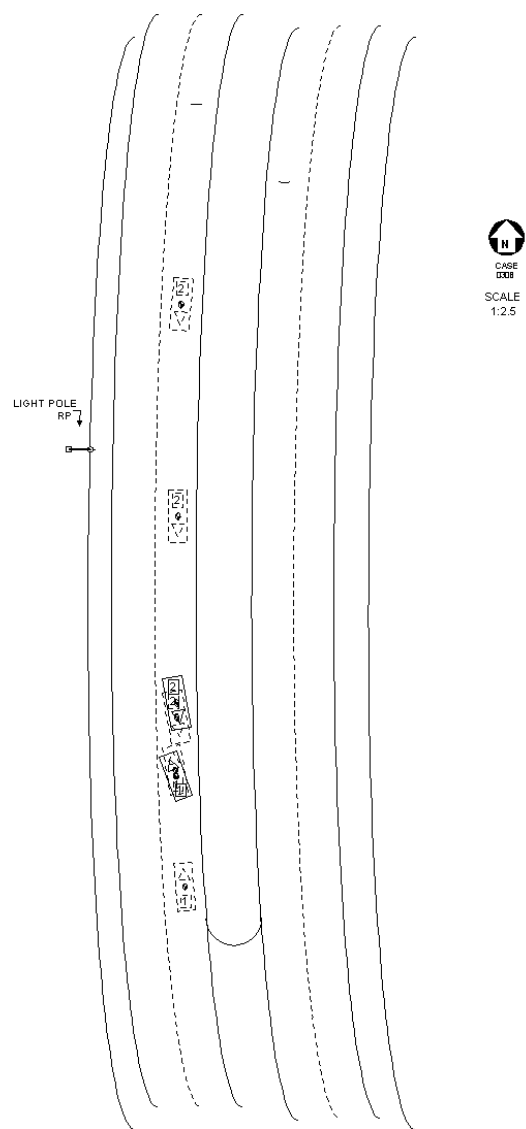
Left interior

Flying glass

Left interior

73 Case 1997-74-30

Summary:
VEHICLE 1 WAS HEADED NORTH IN THE SOUTHBOUND LANE OF TRAFFIC. VEHICLE 2 WAS HEADED SOUTH IN THE SOUTHBOUND LANE OF TRAFFIC. AS VEHICLE 1 ROUNDED A CURVE, IT WAS STRUCK HEAD-ON BY VEHICLE 2. BOTH VEHICLES WERE TOWED DUE TO DAMAGE. THE DRIVER OF VEHICLE 1 DIED AT THE SCENE. THE DRIVER OF VEHICLE 2 WAS TRANSPORTED AND RELEASED.



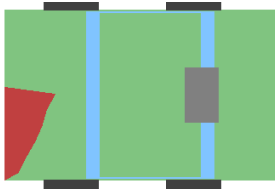
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Toyota	Corolla	1981	1	36	MALE	6=Maximum
2	2DR SEDAN/HT/CPE	Chrysler	Lebaron	1989	1	17	FEMALE-NOT PREG	1=Minor

Occupant: 1997-74-30-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	27

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	59 -59 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	21 32 46 56 62 74
Crush (L and D)	138 2
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	14.159952269
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Corolla
Year	1981
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	103

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	36	Height	170	Weight	77
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-74-30-1-1
MAIS	6=Maximum
Seat Position	Front left side

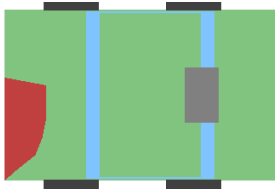
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Windshield
1=Minor	Facial skin laceration, minor	Windshield
3=Serious	>3 rib fractures one side & <3 other side, with stable chest	Steering comb
5=Critical	Thoracic aortic laceration, major, & mediastinal bleeding	Steering comb
6=Maximum	Myocardial lacerations, multiple	Steering comb
5=Critical	Coronary artery laceration (L or R main, or LAD)	Steering comb
2=Moderate	Mesenteric contusion NFS	Steering rim
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1997-74-30-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	50 -50 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	14 46 56 61 60 61
Crush (L and D)	152 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	14.159952269
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chrysler Lebaron
Year	1989
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	128

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	17	Height	178	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

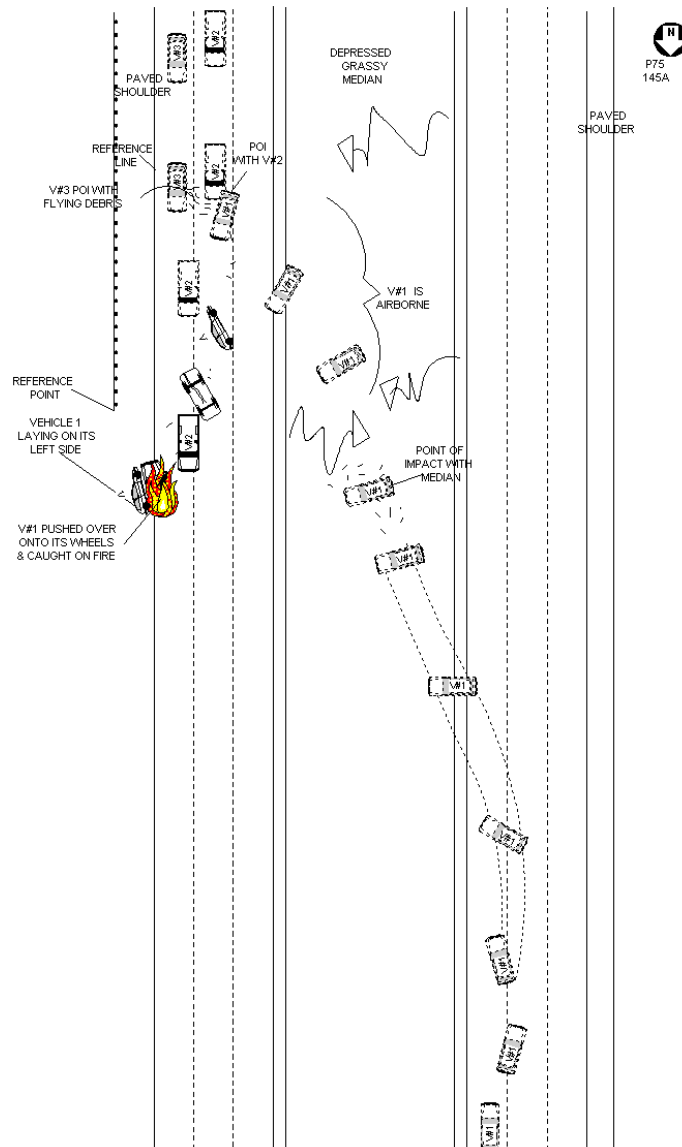
Occupant	1997-74-30-2-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Sternal contusion	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle

74 Case 1997-75-145

Summary:

VEHICLE NUMBER ONE WAS SOUTHBOUND ON A SIX LANE DIVIDED INTERSTATE HIGHWAY WITH THREE TRAVEL LANES FOR EACH DIRECTION. VEHICLE NUMBER ONE WAS TRAVELING IN THE NUMBER TWO TRAVEL LANE. VEHICLE NUMBER TWO WAS NORTHBOUND IN THE NUMBER TWO TRAVEL LANE. VEHICLE NUMBER THREE WAS NORTHBOUND IN THE NUMBER ONE TRAVEL LANE, TRAVELING ABREAST OF VEHICLE NUMBER TWO. AS VEHICLE NUMBER ONE CONTINUED SOUTHBOUND CONTROL OF THE VEHICLE WAS LOST AND IT TRAVELED OFF THE LEFT SIDE OF THE ROADWAY. VEHICLE NUMBER ONE ROTATED COUNTERCLOCKWISE AS TRAVELED DOWN THE CENTER GRASSY MEDIAN AND BECAME AIRBORNE AS IT CAME OUT OF THE MEDIAN. THEN VEHICLE NUMBER ONE ENTERED THE NORTHBOUND LANES AIRBORNE AND THE FRONT OF VEHICLE NUMBER TWO CONTACTED THE BACK OF VEHICLE NUMBER ONE. THEN VEHICLE NUMBER ONE ROLLED END OVER END AND SIDE OVER SIDE AS IT SLID OFF THE EAST SIDE OF THE ROADWAY. VEHICLE NUMBER ONE CAME TO REST ON ITS RIGHT SIDE FACING SOUTH ALONG THE PAVED N/B SHOULDER. VEHICLE NUMBER ONE WAS PUSHED TO ITS WHEELS BY BY STANDERS AND IMMEDIATELY CAUGHT ON FIRE. SINCE THE VEHICLE HAD BECOME STABILIZED, THOUGH LEAKING FUEL, AND DID NOT IGNITE UNTIL IT WAS RIGHTED THIS IS NOT INCLUDED AS AN EVENT. VEHICLE NUMBER THREE WAS SPRAYED BY THE DEBRIS FROM THE IMPACT OF VEHICLE NUMBER TWO HITTING VEHICLE NUMBER ONE. VEHICLE NUMBER TWO CAME TO FINAL REST IN THE NORTHBOUND LANES ON ITS WHEELS NEXT TO VEHICLE NUMBER ONE AND HAD TO BE PULLED AWAY FROM THE FIRE. VEHICLE NUMBER THREE WAS DRIVEN TO A CONTROLLED FINAL REST. BOTH VEHICLES ONE AND TWO WERE TOWED FROM THE SCENE AND THE OCCUPANTS OF VEHICLE NUMBER TWO WERE TRANSPORTED FOR TREATMENT. THE OCCUPANTS OF VEHICLE NUMBER ONE WERE PRONOUNCED DEAD AT THE SCENE, AND THE DRIVER OF VEHICLE NUMBER TWO DIED WITHIN A FEW DAYS OF THE ACCIDENT.



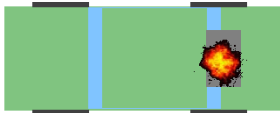
Vehicle ID	Body type	Make	Model	Year	Occ. #	Age	Occupant's sex	Maximum known occupant AIS
1	STATION WAGON	Subaru	Legacy	1996	1	41	MALE	2=Moderate
1	STATION WAGON	Subaru	Legacy	1996	2	11	MALE	3=Serious
2	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1990	1	78	MALE	3=Serious
2	LARGE PICKUP	GMC	"C,K,R,V-series P/U"	1990	2	81	FEMALE-NOT PREG	3=Serious

Occupant: 1997-75-145-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	3 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	40 B D A W 0
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	VEHICLE NO. 2
	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	45.249306764
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	6

Vehicle Factors

Make-Model	Subaru Legacy
Year	1996
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	132

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	41	Height	170	Weight	59
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					JAMMED DOOR/FIRE

Restraint Factors

Restrain	Type unknown
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-145-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Cervical fracture without cord injury +/- dislocation NFS	Unknown SOURCE

Occupant: 1997-75-145-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	3 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 2
Damage (C1-C6)	40 B D A W 0
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	VEHICLE NO. 2
	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	45.249306764
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	COLLISION W/VEH
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object Contacted	VEHICLE NO. 2
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	6

Vehicle Factors

Make-Model	Subaru Legacy
Year	1996
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	132

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	BRAKE W/ LOCKUP
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	11	Height	152	Weight	49
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

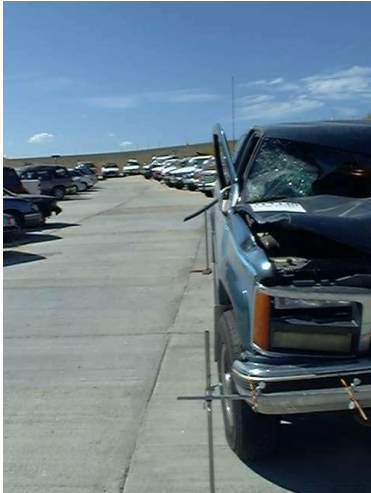
Restrain	Type unknown
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-145-1-2
MAIS	3=Serious
Seat Position	Front right side

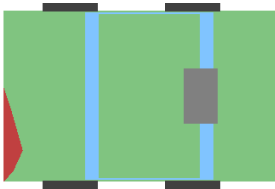
AIS Level	Injury Description	Contacts
2=Moderate	Scalp avulsion, major (>100 cms2, blood loss <203=Serious	Skull fracture, vault, comminuted (compound, depressed)
Unknown SOURCE		
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Abdominal skin contusion	Belt webb/buckle
7=Unk. sev.	Traumatic brain injury	Unknown SOURCE

Occupant: 1997-75-145-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 2
CDC	0 F Y A W 5
Damage (C1-C6)	14 28 19 10 0 0
Crush (L and D)	183 -34
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.249306764
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	GMC "C,K,R,V-series P/U"
Year	1990
Class	TRUCK
Body Type	LARGE PICKUP
Weight	198

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	78	Height	163	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

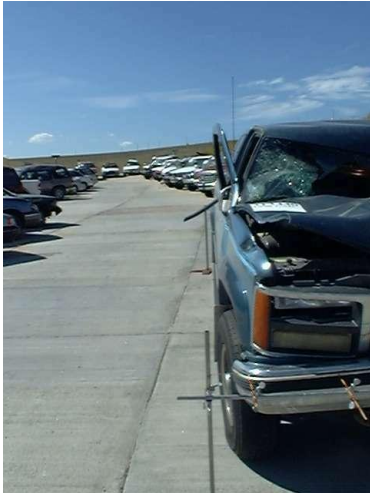
Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-145-2-1
MAIS	3=Serious
Seat Position	Front left side

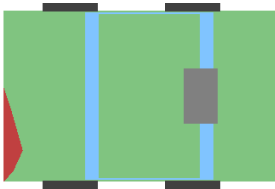
AIS Level	Injury Description	Contacts
2=Moderate	Maxillary fracture, closed	Sunvisor
3=Serious	Radial fracture, open/displaced/comminuted	Steering comb
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Upper extremity skin laceration, minor	Left apnel
1=Minor	Facial skin laceration, minor	Sunvisor
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	297602	Flying glass
1=Minor	Leg skin contusion (hematoma)	Left apnel
2=Moderate	Unconsciousness <1 hour	Sunvisor
2=Moderate	Tibial condylar fracture	Left apnel
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Steering comb
3=Serious	Myocardial contusion NFS	Steering comb

Occupant: 1997-75-145-2-2



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 2
CDC	0 F Y A W 5
Damage (C1-C6)	14 28 19 10 0 0
Crush (L and D)	183 -34
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.249306764
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	GMC "C,K,R,V-series P/U"
Year	1990
Class	TRUCK
Body Type	LARGE PICKUP
Weight	198

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	81	Height	0	Weight	0
Gender	FEMALE-NOT PREG				
Ejection	No EJECTION				
Ejection Area	No EJECTION				
Entrapment	ENTRAPPED				

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

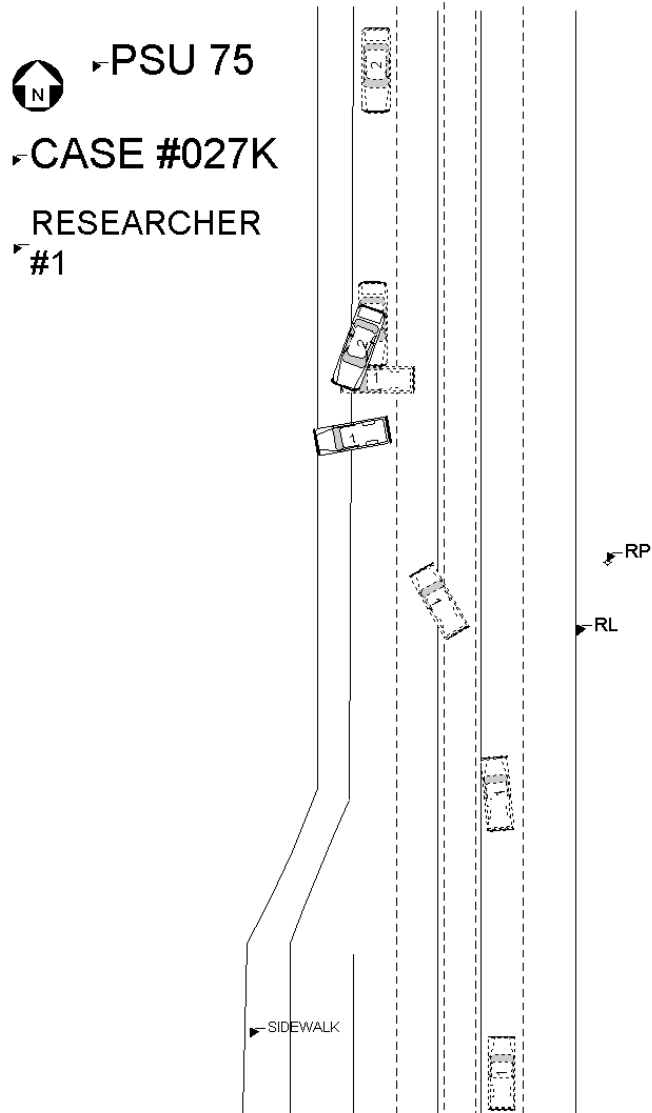
Occupant	1997-75-145-2-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Tibial condylar fracture, open/displaced/comminuted	Glove door
1=Minor	Thoracic skin contusion	Right panel
1=Minor	Facial skin laceration, minor	Windshield
1=Minor	Upper extremity skin contusion	Right panel
1=Minor	Facial skin abrasion	Windshield
1=Minor	297402	Windshield
1=Minor	Facial skin contusion	Windshield

75 Case 1997-75-27

Summary:

VEHICLE #1 WAS NORTHBOUND ON A FIVE LANE ROAD WITH TWO LANES FOR EACH DIRECTION AND A MIDDLE LANE FOR RIGHT AND LEFT TURNS. VEHICLE #1 WAS IN LANE #2 AND THE DRIVER LOST CONTROL OF THE VEHICLE ON AN ICY ROAD AND STARTED TO ROTATE COUNTER CLOCKWISE AND ENTERED THE SOUTHBOUND LANES. VEHICLE #2 WAS SOUTHBOUND ON THE SAME ROAD IN LANE #1 WHEN VEHICLE #1 ENTERED HIS LANE AND THE FRONT OF VEHICLE#2 IMPACTED WITH VEHICLE #1'S RIGHT SIDE. BOTH VEHICLES WERE TOWED FROM THE SCENE. DRIVER #1, DRIVER #2 AND THE RIGHT FRONT OCCUPANT OF VEHICLE#2 WERE TREATED AND RELEASED.



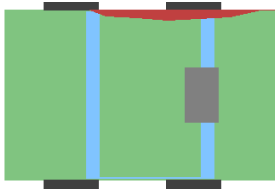
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Nissan	Pickup	1989	1	20	MALE	2=Moderate
2	4-DR SEDAN/HDTOP	Mercury	Topaz	1986	1	45	MALE	3=Serious
2	4-DR SEDAN/HDTOP	Mercury	Topaz	1986	2	40	FEMALE-NOT PREG	1=Minor

Occupant: 1997-75-27-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, forward rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	18 -6 -17
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R Z E W 3
Damage (C1-C6)	8 11 14 12 10 0
Crush (L and D)	274 -56
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	44.669089197
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Nissan Pickup
Year	1989
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	160

Pre-Crash Driver Data

Accident Type	64
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	20	Height	170	Weight	64
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-27-1-1
MAIS	2=Moderate
Seat Position	Front left side

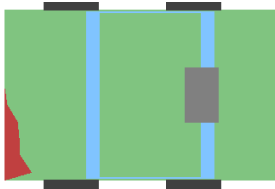
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, amnesia	Right interior
1=Minor	Facial skin abrasion	Right interior
1=Minor	Facial skin contusion	Right interior
1=Minor	Scalp contusion	Right interior
1=Minor	Scalp abrasion	Right interior
1=Minor	Thoracic skin contusion	Right interior

Occupant: 1997-75-27-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -23 8
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	39 23 22 19 4 0
Crush (L and D)	147 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	44.669089197
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Topaz
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	111

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	45	Height	175	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-27-2-1
MAIS	3=Serious
Seat Position	Front left side

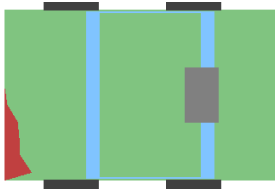
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Steering rim
3=Serious	Myocardial contusion, minor	Steering comb
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Scalp contusion	Windshield

Occupant: 1997-75-27-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	ICE
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	SNOW
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	24 -23 8
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 2
Damage (C1-C6)	39 23 22 19 4 0
Crush (L and D)	147 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	44.669089197
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mercury Topaz
Year	1986
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	111

Pre-Crash Driver Data

Accident Type	65
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	40	Height	168	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

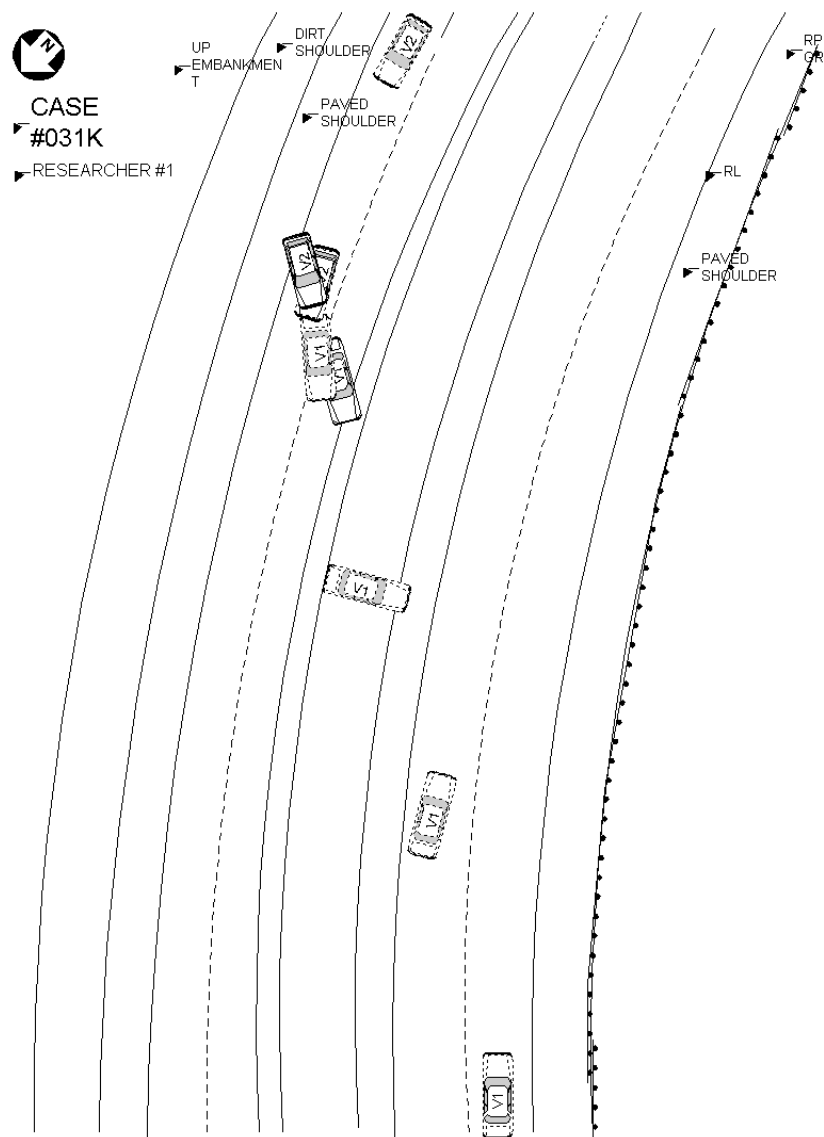
Occupant	1997-75-27-2-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Windshield
1=Minor	Thoracic skin contusion	Right panel
1=Minor	Facial skin contusion	Right panel
1=Minor	Facial skin abrasion	Windshield
1=Minor	Leg skin contusion (hematoma)	Glove door
1=Minor	Leg skin contusion (hematoma)	Center panel

76 Case 1997-75-31

Summary:

VEHICLE #1 WAS EASTBOUND ON A RIGHT CURVE DIVIDED MOUNTAIN ROAD WITH TWO LANES FOR EACH DIRECTION. VEHICLE #1 WAS IN THE RIGHT THROUGH LANE AND LOST CONTROL ON AN ICY ROAD. VEHICLE #1 STARTED TO ROTATE CLOCKWISE AND RAN INTO THE WEST BOUND LANES WHERE VEHICLE #2 WAS. VEHICLE #2 WAS EASTBOUND ON THE SAME ROAD TRAVELLING WESTBOUND IN THE RIGHT THROUGH LANE. VEHICLE #1 ENTERED VEHICLE #2'S LANE AND WAS REAR ENDED BY VEHICLE #2. VEHICLE #1 CAME TO REST FACING WEST IN THE RIGHT THROUGH LANE OF WEST BOUND TRAFFIC. VEHICLE #2 CAME TO REST FACING NORTH ON THE NORTH SHOULDER. DRIVER #1 AND OCCUPANT WAS TREATED AND RELEASED AND DRIVER #2 WAS HOSPITALIZED FOR ONE NIGHT. Vehicle #1's gas tank was deformed and lacerated due to the rear end impact.



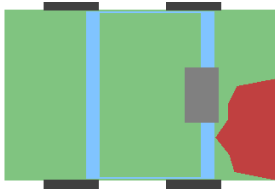
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Toyota	Corolla	1990	1	20	MALE	1=Minor
1	2DR SEDAN/HT/CPE	Toyota	Corolla	1990	2	18	MALE	1=Minor
1	2DR SEDAN/HT/CPE	Toyota	Corolla	1990	3	19	MALE	1=Minor
2	3DR/2DR HATCHBAK	Dodge	Colt	1988	1	54	MALE	2=Moderate

Occupant: 1997-75-31-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 39 14
Est. δV with sequence number	DELTA V CODED 1
CDC	67 B D E W 6
Damage (C1-C6)	62 69 90 72 71 58
Crush (L and D)	150 -10
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	53.328936623
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Toyota Corolla
Year	1990
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	110

Pre-Crash Driver Data

Accident Type	62
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	Unk IF LEFT LANE

DRIVER Factors

Age	20	Height	190	Weight	77
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-31-1-1
MAIS	1=Minor
Seat Position	Front left side

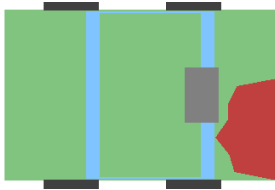
AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1997-75-31-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 39 14
Est. δV with sequence number	DELTA V CODED 1
CDC	67 B D E W 6
Damage (C1-C6)	62 69 90 72 71 58
Crush (L and D)	150 -10
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	53.328936623
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Toyota Corolla
Year	1990
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	110

Pre-Crash Driver Data

Accident Type	62
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	Unk IF LEFT LANE

PASSENGER Factors

Age	18	Height	183	Weight	91
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-31-1-2
MAIS	1=Minor
Seat Position	Front right side

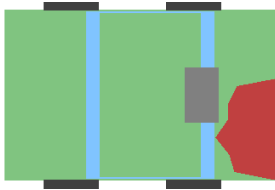
AIS Level	Injury Description	Contacts
1=Minor	Facial skin abrasion	Seat, back
1=Minor	Upper extremity skin abrasion	Seat, back

Occupant: 1997-75-31-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 39 14
Est. δV with sequence number	DELTA V CODED 1
CDC	67 B D E W 6
Damage (C1-C6)	62 69 90 72 71 58
Crush (L and D)	150 -10
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	53.328936623
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Corolla
Year	1990
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	110

Pre-Crash Driver Data

Accident Type	62
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	Unk IF LEFT LANE

PASSENGER Factors

Age	19	Height	183	Weight	77
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-31-1-3
MAIS	1=Minor
Seat Position	Second left

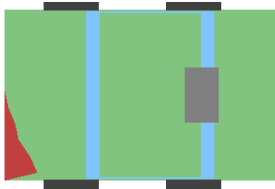
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Seat, back

Occupant: 1997-75-31-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Over center of the rear wheels
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DUSK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Dodge Colt
Year	1988
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	89

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	56 -55 1
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	48 37 21 15 5 0
Crush (L and D)	143 -24
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	62
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	53.328936623
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DRIVER Factors

Age	54	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

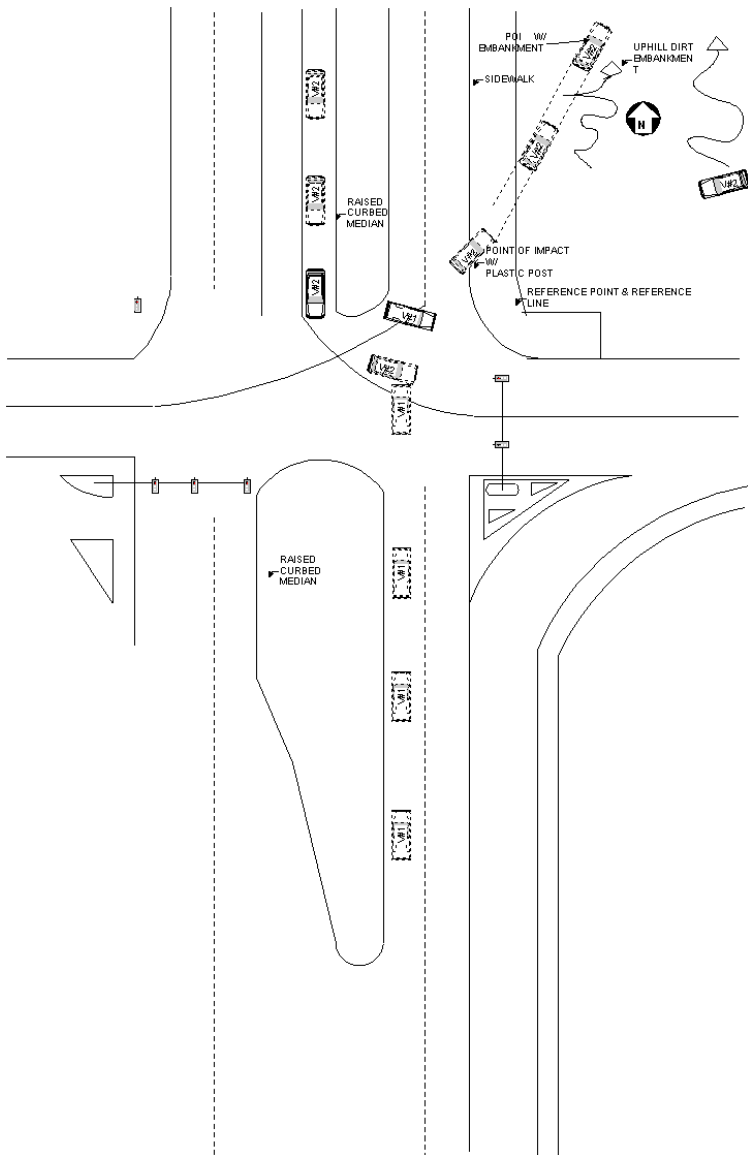
Occupant	1997-75-31-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Facial skin laceration, major (>10 cm & into sub-Q)	Windshield
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Scalp laceration, minor	Windshield
2=Moderate	Awake on admission, amnesia	Windshield
1=Minor	Upper extremity skin contusion	Left interior
1=Minor	Leg skin abrasion	Steering rim
1=Minor	Scalp contusion	Windshld DR side

77 Case 1997-75-62

Summary:

VEHICLE NUMBER ONE WAS NORTHBOUND IN THE NUMBER THREE TRAVEL LANE APPROACHING A FOUR-WAY INTERSECTION WITH TRAFFIC LIGHTS FOR TRAFFIC CONTROL. VEHICLE NUMBER TWO WAS SOUTHBOUND IN THE INSIDE LEFT TURN LANE APPROACHING THE INTERSECTION. BOTH VEHICLES ENTERED THE INTERSECTION AT THE SAME TIME AND THE FRONT OF VEHICLE NUMBER ONE CONTACTED THE RIGHT SIDE OF VEHICLE NUMBER TWO. AFTER IMPACT V#1 SPUN NINETY DEGREES CLOCKWISE AND CAME TO REST IN THE INSIDE THROUGH LANE FACING EAST. VEHICLE NUMBER TWO TRAVELED OFF THE NORTHEAST CORNER OF THE INTERSECTION AND IMPACTED A DELINEATOR POST WITH ITS FRONT. THEN V#2 CONTINUED NORTHBOUND AND TRAVELED UP A STEEP DIRT EMBANKMENT, AND THEN ROLLED BACKWARDS DOWN THE EMBANKMENT COMING TO REST IN THE GRASSY MEDIAN FACING WEST ON ITS WHEELS WHERE IT CAUGHT FIRE. BOTH VEHICLES WERE TOWED FROM THE SCENE AND BOTH DRIVERS WERE TRANSPORTED FOR TREATMENT



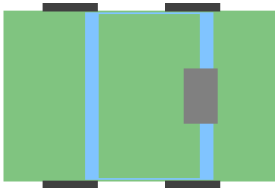
Vehicle	Body type	Make	Model	Year	Occ. Age	Occupant's sex	Maximum known occupant ais
1	COMPACT PICKUP	Nissan	Pickup	1993	30	FEMALE-NOT PREG	1=Minor
2	4-DR SEDAN/HDTOP	Chevrolet	Baretta/Corsica	1989	49	FEMALE-NOT PREG	4=Severe

Occupant: 1997-75-62-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, right side
Fuel Cap Location	Right side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	26 -26 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	0 9 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	44.669089197
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Nissan Pickup
Year	1993
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	163

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	BRAKE W/O LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	30	Height	170	Weight	88
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-62-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Thoracic spine strain, acute without fracture or dislocation	Other noncontact

Occupant: 1997-75-62-2-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	38 -7 -37
Est. δV with sequence number	DELTA V CODED 1
CDC	3 R Y A W 3
Damage (C1-C6)	8 39 34 29 12 6
Crush (L and D)	248 101
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	EMBANKMENT

NASS Weighting Factor

Weighting factor	44.669089197
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Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Baretta/Corsica
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	118

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	49	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

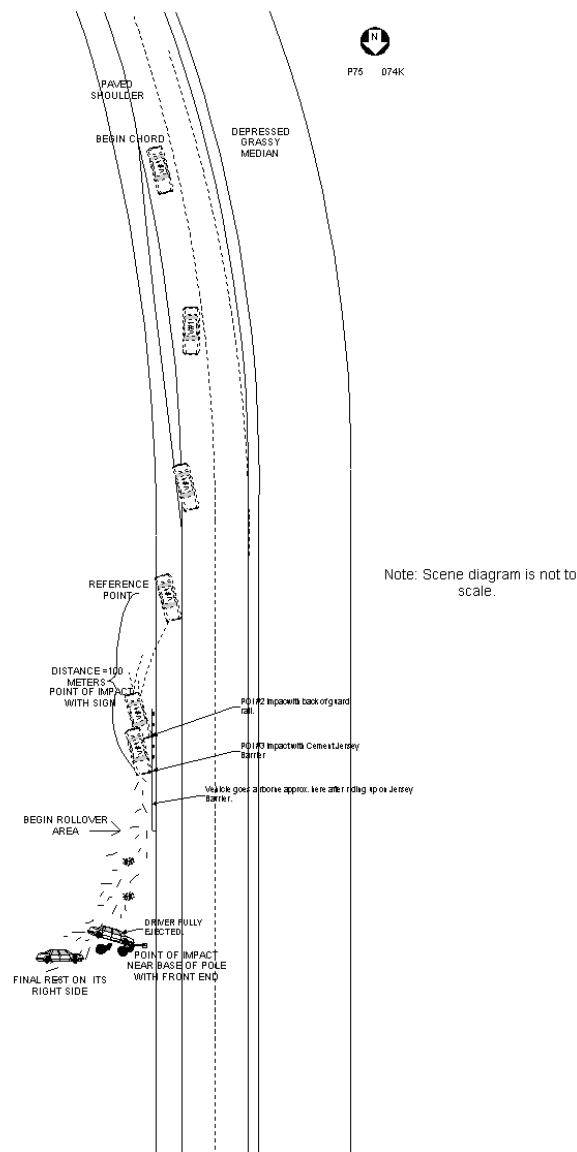
Occupant	1997-75-62-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Skull fracture, vault, comminuted (compound, depressed)	Right interior
2=Moderate	Skull fracture, vault, closed (simple, undisplaced)	Right panel
4=Severe	Cerebral contusion, single, large (30-50ccs)	Right panel
2=Moderate	Kidney laceration, minor (<1cm, no urinary extravasation)	Left interior
2=Moderate	Facial nerve contusion	Right interior
3=Serious	Unconsciousness <1 hour & neuro deficit	Right interior

78 Case 1997-75-74

Summary:

VEHICLE NUMBER ONE WAS WESTBOUND ON A FOUR LANE DIVIDED INTERSTATE HIGHWAY WITH TWO TRAVEL LANES FOR EACH DIRECTION AND A DEPRESSED GRASSY MEDIAN. VEHICLE NUMBER ONE WAS NEGOTIATING A RIGHT HAND CURVE. AS IT TRAVELED IN THE NUMBER ONE TRAVEL LANE THE VEHICLE DEPARTED OFF THE RIGHT SIDE OF THE ROADWAY ONTO A GRASSY SLIGHT EMBANKMENT. VEHICLE NUMBER ONE IMPACTED A SIGN WITH ITS FRONT AND CONTINUED IN A NORTHERLY DIRECTION. THEN V#1 CONTACTED THE BACKSIDE OF A METAL GUARDRAIL SUPPORTED BY WOODEN POSTS WITH ITS FRONT AND CONTINUING ALONG THE GUARDRAIL UNTIL IT IMPACTED A CONCRETE BARRIER WALL WITH ITS FRONT NEAR THE LEFT SIDE. V#1 RODE UP THE BARRIER WALL AND BEGAN TO ROLL LEADING WITH ITS RIGHT FRONT CORNER AS IT VAULTED IN THE AIR. VEHICLE #1 HOWEVER, IT DID NOT COMPLETELY ROLL 90 DEGREES BEFORE IMPACTING THE GROUND NEAR THE BASE OF A LIGHT POLE. THE DRIVER OF V-1 WAS FULLY EJECTED OUT OF THE VEHICLE AT THIS TIME. VEHICLE 1 THEN CAME TO FINAL REST ON ITS RIGHT SIDE AFTER ROLLING 1/4 TURN TO THE RIGHT. THE VEHICLE WAS TOWED FROM THE SCENE AND THE DRIVER WAS TRANSPORTED FOR TREATMENT.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Audi	V-8 Quattro	1987	1	45	MALE	7=Unk. sev.

Occupant: 1997-75-74-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	No fuel Tank
Fuel Tank Location	No fuel tank
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 4
Damage (C1-C6)	20 F D E W 0
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	GROUND
	CONCRETE BARRIER

NASS Weighting Factor

Weighting factor	44.669089197
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Rollover Characteristics

Number of Events	7
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	CONCRETE BARRIER
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Audi V-8 Quattro
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	152

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	STEERING LEFT
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	45	Height	0	Weight	0
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					WINDSHIELD
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

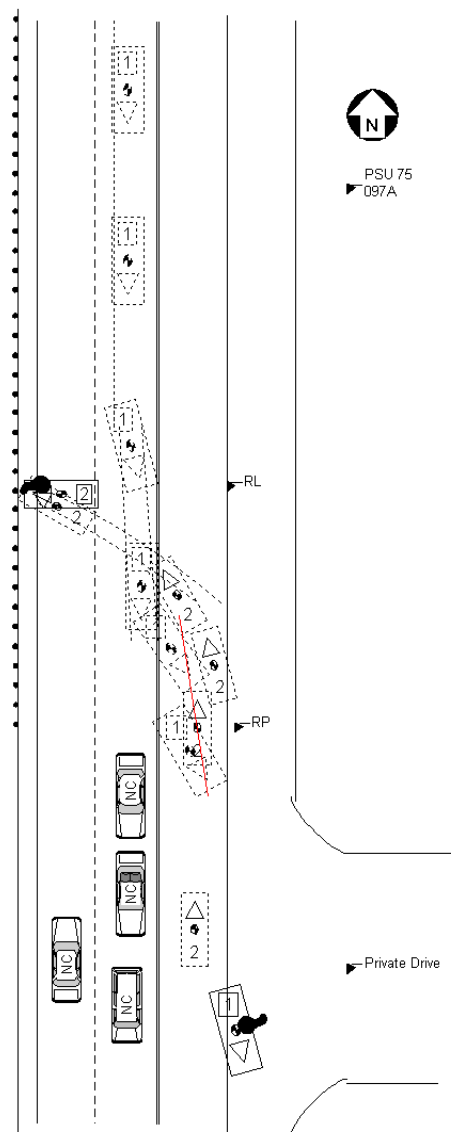
Occupant	1997-75-74-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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79 Case 1997-75-97

Summary:

V#1 was traveling southbound on a two-way, three lane roadway, with two southbound lanes and one northbound lone. V#1 was traveling in the left southbound lane. V#2 was traveling northbound. As V#1 traveled southbound, traffic ahead began to slow and stop due to a vehicle ahead merging into traffic from a side road. V#1 began to brake and started to skid toward the rear of a non-contact vehicle ahead. V#1 continued to skid for approximately 43 meters. V#1 skidded counter-clockwise across the double-yellow lines into the northbound lane in front of V#2. The front of V#1 then contacted the front of V#2. After impact, V#1 continued southbound in the northbound lane approximately 7 meters and came to rest between the paved shoulder and the northbound lane facing south. After impact, V#2 rotated 90 degrees counter clockwise, crossed both southbound travel lanes and came to rest facing west in the right southbound travel lane. Additionally after impact, a minor fire occurred in the engine compartment of V#2. Both vehicles were towed from the scene. Both drivers were transported for treatment. Driver #2 died at the hospital approximately four hours after the accident.



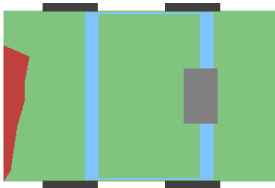
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Dodge	"D,W-series "	1973	1	37	MALE	2=Moderate
2	COMPACT UTILITY	Ford	Bronco II	1994	1	74	FEMALE-NOT PREG	4=Severe

Occupant: 1997-75-97-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	42 -36 -21
Est. δV with sequence number	DELTA V CODED 1
CDC	81 F Y E W 2
Damage (C1-C6)	11 16 20 30 32 38
Crush (L and D)	200 51
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.249306764
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge "D,W-series "
Year	1973
Class	PASSENGER CAR
Body Type	LARGE PICKUP
Weight	147

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Maneuver	BRAKE+STEER LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	37	Height	188	Weight	79
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	Lap belt
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-75-97-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Steering rim
2=Moderate	Tibial fracture of the medial malleolus	Foot controls
2=Moderate	Orbit fracture, closed	Left apnel
2=Moderate	2-3 rib fractures with stable chest	Steering comb
1=Minor	Facial skin contusion	Steering rim

Occupant: 1997-75-97-2-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	33 -32 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 3
Damage (C1-C6)	62 45 21 10 8 4
Crush (L and D)	160 -14
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	45.249306764
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Bronco II
Year	1994
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	184

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	74	Height	170	Weight	55
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

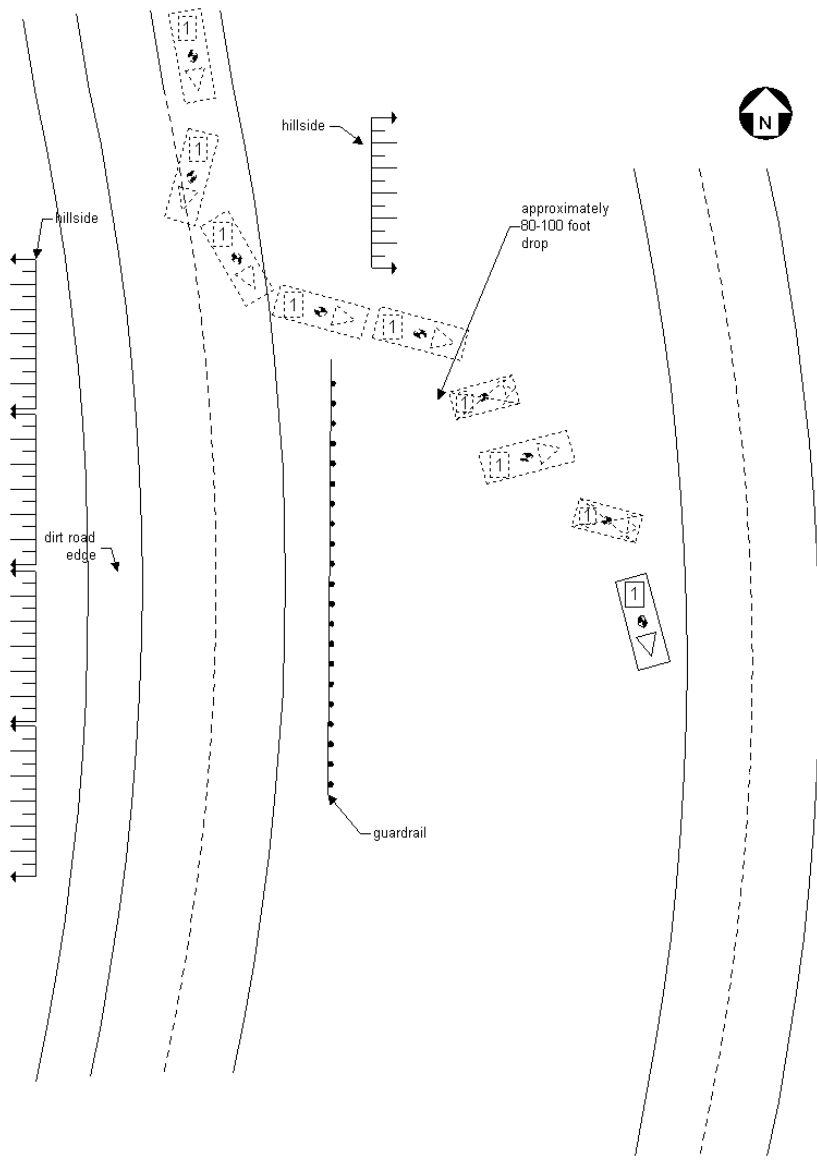
Occupant	1997-75-97-2-1
MAIS	4=Severe
Seat Position	Front left side

AIS Level	Injury Description	Contacts
4=Severe	Flail chest, with lung contusion	Steering comb
4=Severe	Myocardial contusion, severe	Sterring hub
2=Moderate	Scalp laceration, major (>10 cms and into sub-Q)	Front header
1=Minor	Facial skin laceration, minor	Flying glass
2=Moderate	Finger amputation	Steering rim
2=Moderate	Finger amputation	Steering rim
2=Moderate	Mandible body (+/- ramus) fracture, open/displaced/comminute	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Teeth fracture	Left apnel
1=Minor	Upper extremity skin contusion	Steering comb

80 Case 1997-76-66

Summary:

On a cloudy day vehicle 1 was traveling south in the outside lane on a two lane, one way roadway. While reaching into the back seat d-1 drifted into the inside lane, overcorrected and went off the left side of the road struck a delineator and vaulted into the median. The median is a dropoff of approximately 80-100 feet. Vehicle 1 contacted the ground several times leaving debris along the way coming to final rest upright on the high speed shoulder of the lower northbound lane. There was a small electrical fire in the right rear fender. D-1 had incapacitating injuries and was trapped in the vehicle and later transported to the hospital and admitted. Occupants 2 3 had nonincapaccitating injuries and were transported to a hospital. Occ 2 was admitted and Occ 3 was treated and released. All Occupants were secured by safety systems. Vehicle was towed due to extensive damage.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	UTILITY STAWAGON	Chevrolet	Suburban	1993	1	33	FEMALE-NOT PREG	2=Moderate
1	UTILITY STAWAGON	Chevrolet	Suburban	1993	2	6	MALE	2=Moderate
1	UTILITY STAWAGON	Chevrolet	Suburban	1993	3	1	MALE	1=Minor

Occupant: 1997-76-66-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Cargo/trunk area
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	END-OVER-END
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	0 T D D O 8
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN

Vehicle Factors

Make-Model	Chevrolet Suburban
Year	1993
Class	TRUCK
Body Type	UTILITY STAWAGON
Weight	390

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	132.35686255
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	END-OVER-END
Location of Rollover Initiation	END-OVER-END
Rollover Initiation Object Contacted	END-OVER-END
Location on Vehicle where Principal Tripping Force was Applied	END-OVER-END
Direction of Initial Roll	END-OVER-END

DRIVER Factors

Age	33	Height	0	Weight	55
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-76-66-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Steering comb
1=Minor	297602	Sterring hub
1=Minor	Facial skin laceration, minor	Steering comb
1=Minor	Thoracic skin contusion	Steering comb
1=Minor	Arm skin avulsion, superficial (<25cms2 hand or <100cms2 arm	Left apnel
1=Minor	Facial skin contusion	Steering comb
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Upper extremity skin contusion	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
2=Moderate	Orbit fracture, closed	Steering comb

Occupant: 1997-76-66-1-2



Fire Information

Fire Occurence	Minor fire
Fire Origin	Cargo/trunk area
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	END-OVER-END
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	0 T D D O 8
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	132.35686255
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	END-OVER-END
Location of Rollover Initiation	END-OVER-END
Rollover Initiation Object Contacted	END-OVER-END
Location on Vehicle where Principal Tripping Force was Applied	END-OVER-END
Direction of Initial Roll	END-OVER-END

Vehicle Factors

Make-Model	Chevrolet Suburban
Year	1993
Class	TRUCK
Body Type	UTILITY STAWAGON
Weight	390

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	6	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-76-66-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Neck skin abrasion	Belt webb/buckle
2=Moderate	Shoulder dislocation (glenohumeral joint)	Roof
2=Moderate	Arm, forearm, hand fracture NFS	Roof

Occupant: 1997-76-66-1-3



Fire Information

Fire Occurence	Minor fire
Fire Origin	Cargo/trunk area
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	END-OVER-END
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH <
Est. δV with sequence number	0.5 KMPH
CDC	SEVERE 1
Damage (C1-C6)	0 T D D O 8
Crush (L and D)	0 0 0 0 0 0
Object Contacted 1	0 0
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	132.35686255
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	END-OVER-END
Location of Rollover Initiation	END-OVER-END
Rollover Initiation Object Contacted	END-OVER-END
Location on Vehicle where Principal Tripping Force was Applied	END-OVER-END
Direction of Initial Roll	END-OVER-END

Vehicle Factors

Make-Model	Chevrolet Suburban
Year	1993
Class	TRUCK
Body Type	UTILITY STAWAGON
Weight	390

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	1	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area Entrapment					No EJECTION ENTRAPPED

Restraint Factors

Restrain	Lap+sh w/ch seat
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-76-66-1-3
MAIS	1=Minor
Seat Position	Second left

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Roof

81 Case 1997-78-135

Summary:

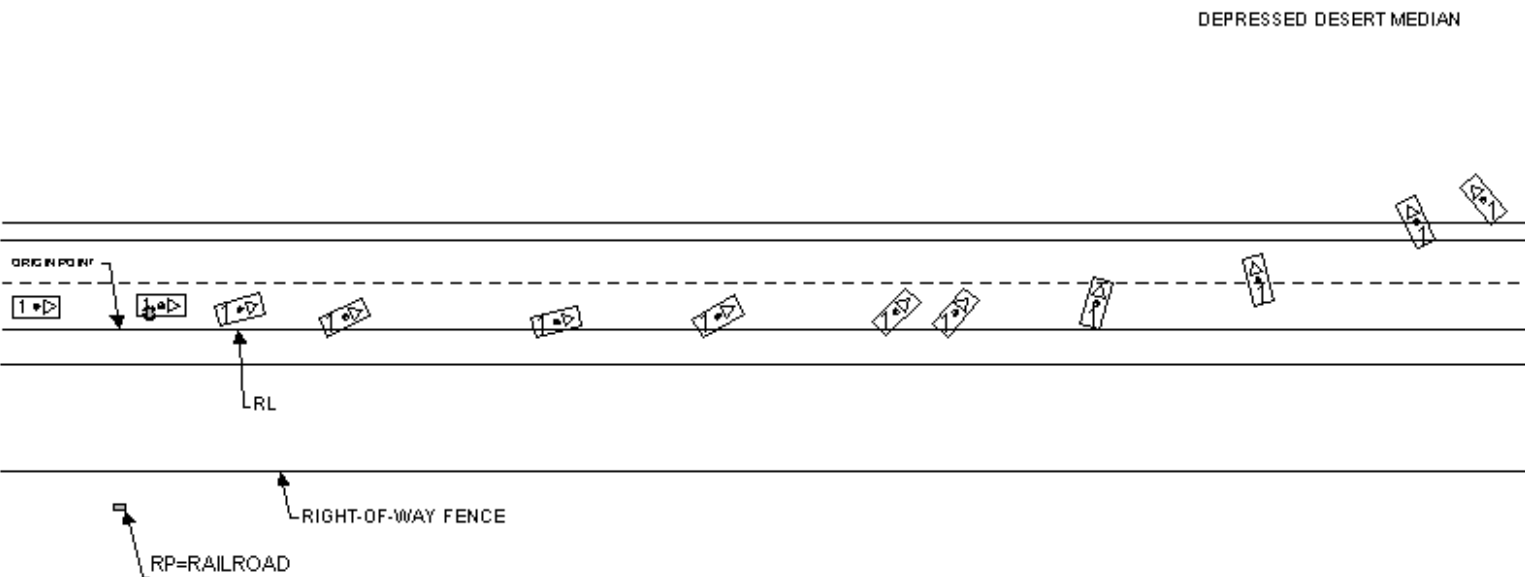
V1 was eastbound on a divided, Interstate, 2-lane, dry, level, bituminous roadway in the #1 lane and experienced a blow-out to the right rear tire and a subsequent loss of control. The vehicle dropped down onto the right rear rim and the vehicle swerved to the right. The driver steered left, lost control and the vehicle rotated counterclockwise. V1 continued counterclockwise rotation and exited the left side of the roadway into the depressed median where it dug in the soil and began to overturn. The vehicle overturned a total of (8) quarter turns, coming to final rest on the wheels facing generally northbound. Some conflict exists regarding possible ejection of both occupants. A witness describes both occupants being ejected, and interview information refutes this, stating occupant #2 crawled out and then dragged the driver from the vehicle. Sometime during the last rollover a fire began in the engine compartment and eventually consumed the vehicle. The driver was transported via helicopter to a medical facility and hospitalized. The passenger refused treatment and was not transported. The vehicle was towed due to major damage.



PSU-78

CASE# 135J

SCALE/ 1cm=5m



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Ford	F-series P/U	1994	1	33	MALE	3=Serious
1	LARGE PICKUP	Ford	F-series P/U	1994	2	31	MALE	1=Minor

Occupant: 1997-78-135-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Cap
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	8 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T D D O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	44.137109536
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	216

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	33	Height	173	Weight	95
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-78-135-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Orbit fracture, open/displaced/comminuted	Ground
3=Serious	Femoral shaft fracture	Ground
1=Minor	Corneal abrasion	Ground
2=Moderate	Hip joint dislocation	Ground
	NFS	
1=Minor	Scalp laceration, NFS	Ground
1=Minor	Skin abrasion (body region unknown)	Ground
1=Minor	Skin contusion (body region unknown)	Ground
1=Minor	297602	Ground
1=Minor	Facial skin contusion	Ground

Occupant: 1997-78-135-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compartment
Location of Fuel Leakage	Cap
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	8 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T D D O 3
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	44.137109536
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford F-series P/U
Year	1994
Class	TRUCK
Body Type	LARGE PICKUP
Weight	216

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	BLOWOUT/FLATIRE
Attempted Avoidance Manuever	STEERING LEFT
Pre-impact Stability	LAT SKID-CTR CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	31	Height	165	Weight	68
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Right FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

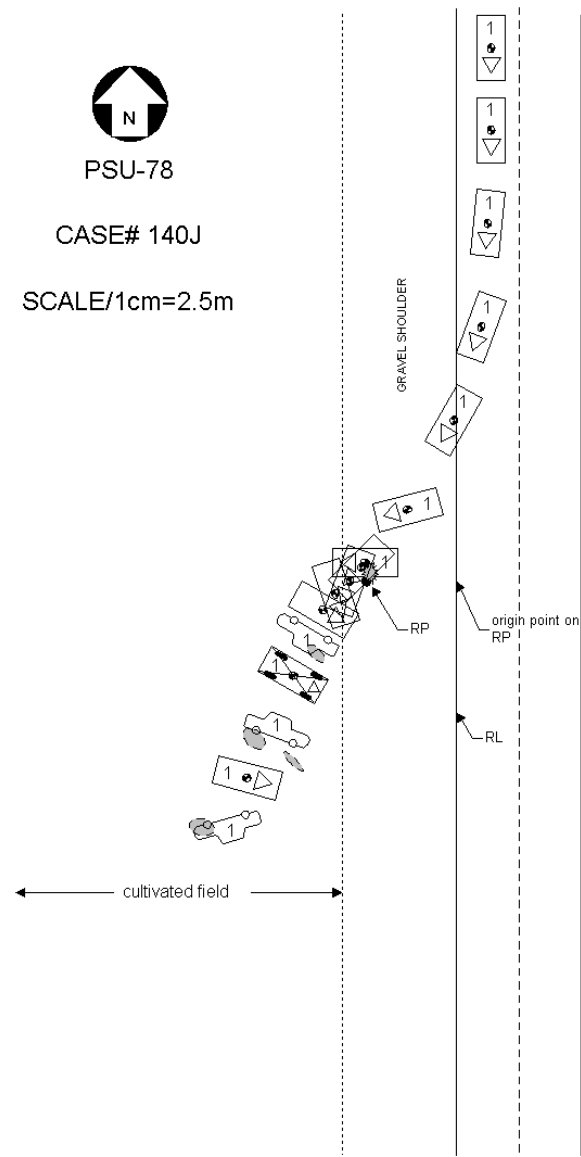
Occupant	1997-78-135-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin abrasion	Flying glass

82 Case 1997-78-140

Summary:

V1 was southbound on a rural, 2-lane, dry, level, bituminous roadway with no traffic controls present. The driver allowed the vehicle to gradually exit the roadway on the right, onto a gravel shoulder, and strike a utility pole on the left side. The vehicle then rotated around the pole in a counterclockwise rotation . The left side of the bed was torn free from the chassis and was deposited near the pole. The vehicle continued forward into a cultivated field and overturned a total of (3) quarter turns. V1 came to rest on the left side facing generally eastbound. The driver was not restrained. The vehicle was equipped with a driver side airbag which deployed during the crash. The driver was extricated from the vehicle and was transported due to injuries. The vehicle was towed.



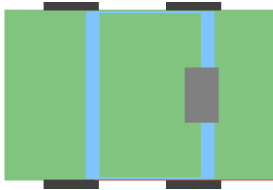
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE PICKUP	Toyota	T-100	1996	1	72	MALE	3=Serious

Occupant: 1997-78-140-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	7 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	11 L Z A W 4
Damage (C1-C6)	0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE POLE
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	46.068108079
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Vehicle Factors

Make-Model	Toyota T-100
Year	1996
Class	TRUCK
Body Type	LARGE PICKUP
Weight	151

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	REMAIN OFF ROAD

DRIVER Factors

Age	72	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

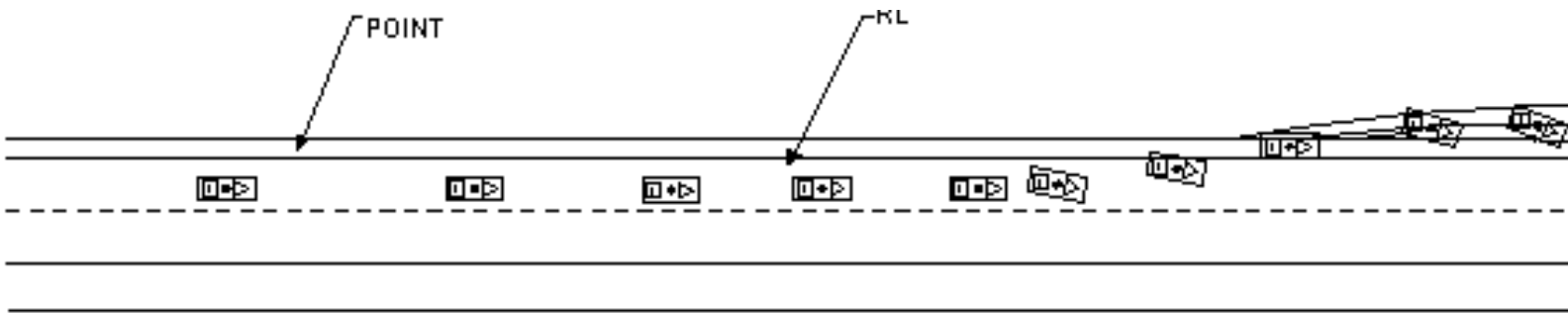
Occupant	1997-78-140-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Radial fracture, open/displaced/comminuted	Left interior
3=Serious	Ulnar fracture, open/displaced/comminuted	Left interior
1=Minor	Elbow joint dislocation +/- radial head involvement	Left interior
1=Minor	Upper extremity skin abrasion	Left interior
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Foot controls

83 Case 1997-78-32

Summary:

This is a single vehicle rollover. V1 is a compact utility vehicle travelling eastbound on a rural, 2-lane, divided, Interstate roadway with bituminous surface while raining and wet conditions prevailed. V1 was in the #2 lane and began to hydroplane exited into the depressed median. The driver steered right, the vehicle re-entered and crossed the roadway while rotating clockwise,began to overturn on the roadway ,exited the roadway on the right roadside and overturned a total of (9) quarter turns. V1 came to final rest on the driver side facing generally westbound. The driver and only occupant was using the available LS restraint and was not ejected. The driver was injured and transported to a medical facility. The vehicle was towed due to damage.



PSU-78

CASE # 032 D

SCALE/ 1cm= 5m

M.JOHNSON #1

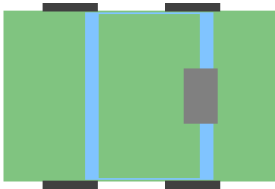
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Ford	Bronco II	1986	1	54	FEMALE-NOT PREG	1=Minor

Occupant: 1997-78-32-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Cap
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	9 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	0 T D D O 5
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTRN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	50.312348312
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ON ROADWAY
Rollover Initiation Object	GROUND
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Bronco II
Year	1986
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	146

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Maneuver	STEERING RIGHT
Pre-impact Stability	Oth VEH CTL LOSS
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	54	Height	158	Weight	59
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-78-32-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	297602	Roof left rail
1=Minor	Facial skin laceration, minor	Roof left rail
1=Minor	Scalp laceration, minor	Roof left rail
1=Minor	Upper extremity skin laceration, minor	Flying glass
1=Minor	Upper extremity skin contusion	Steering rim
1=Minor	Leg skin contusion (hematoma)	Left apnel

84 Case 1997-78-49

Summary:

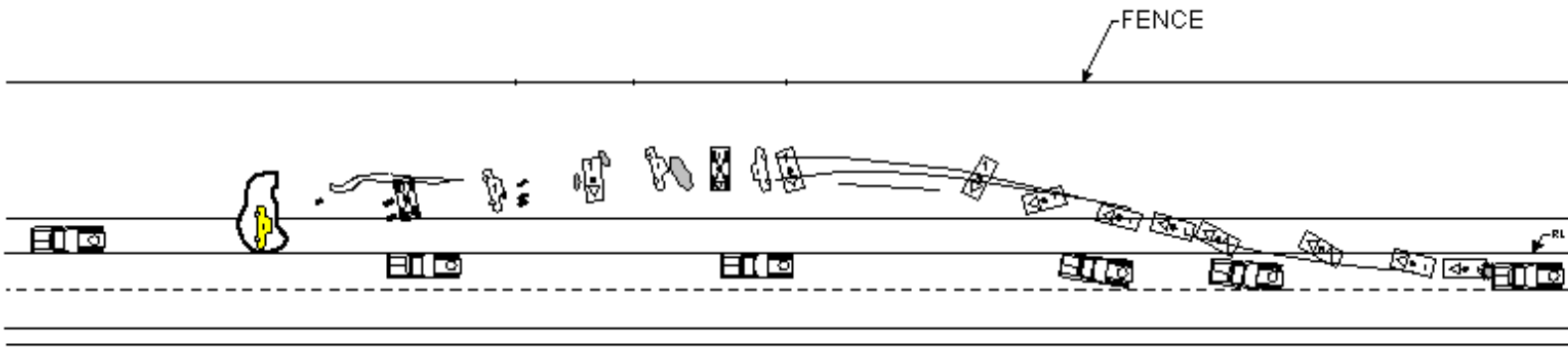
This crash involves a Volkswagon van and a tractor/trailer pulling a trailer, and subsequent impact fire to the van. V1 was westbound on a 4-lane,divided, dry, level, bituminous interstate roadway with no traffic controls. V1 was in the #1 lane. V2 was westbound at a slower speed ahead of V1 and was also in the #1 lane. V1 impacted the rear of V2 causing V2 to rotate rapidly in a clockwise manner and depart the right side of the roadway. V2 then began a counterclockwise rotation and overturned off the roadway, a total of (7) quarter turns. During the rollover sequence a fire ignited in the rear engine area of V2 and completely engulfed the vehicle. V2 came to final rest on the driver side facing generally southbound. After impact V1 drove to the right shoulder and parked. The driver of V1 was not injured and not transported. The driver of V2 exited the vehicle and was transported to a medical facility where he was hospitalized for observation of a possible neck injury. V1 was driven from the scene. V2 was towed due to damage.



PSU-78

CASE # 049

SCALE/1cm=



DEPRESSED
MEDIAN

Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
2	Other VAN TYPE	VW	Eurovan	1971	1	26	MALE	7=Unk. sev.

Occupant: 1997-78-49-2-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Over center of the rear wheels
Fuel Cap Location	Right side, on the rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	7 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	6 B Y A W 3
Damage (C1-C6)	10 21 20 30 14 9
Crush (L and D)	154 -17
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	50.312348312
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL RIGHT

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	VW Eurovan
Year	1971
Class	PASSENGER CAR
Body Type	Other VAN TYPE
Weight	118

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	26	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

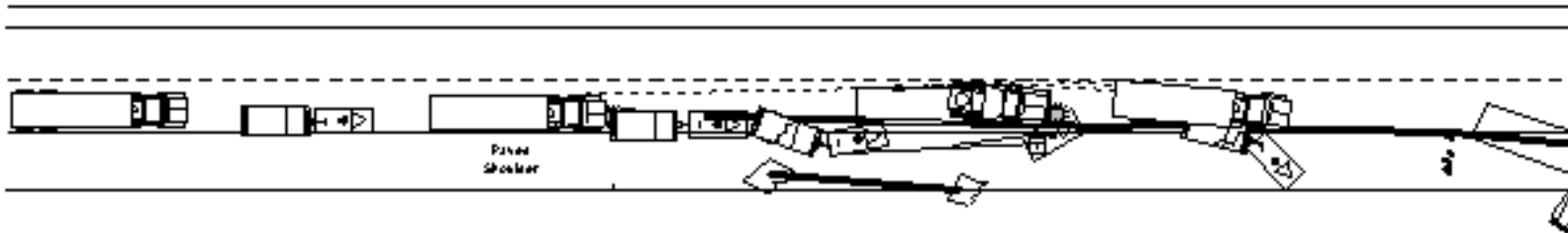
Occupant	1997-78-49-2-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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85 Case 1997-78-70

Summary:

This is a crash involving a passenger van pulling a U-Haul trailer and a tractor trailer pulling a 45 foot trailer with a resultant fire that destroyed both vehicles involved. V1 was a van travelling eastbound on a 2-lane, divided, interstate, dry, level, bituminous roadway pulling a trailer. V1 was in the #1 curb lane. V2 was also eastbound on the same roadway and travelling behind V1 at a speed greater than V1. The right front of V2 struck the left rear of the trailer behind V1 and tore the trailer body and contents from the frame. The impact caused V1 and trailer to jack-knife and exit the roadway on the right. The tractor and trailer of V2 also jack-knifed and pushed V1 off the roadway on the right. The van(V1) came to rest facing generally southwest with the trailer frame still attached, and the trailer of V2 was on top of the trailer frame. The tractor of V2 was facing generally southwest and in contact with the ruptured V1 trailer and contents. Sparks caused ignition of fuel from the ruptured tank of V2 to ignite and the resultant fire destroyed both vehicles. The (3) occupants of V1 escaped from the vehicle and were transported with minor injuries. The driver of V2 escaped and was not transported. Both vehicles and both towed trailers were totally destroyed by fire and towed.



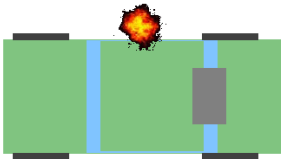
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Ford	Aerostar	1988	1	55	MALE	7=Unk. sev.
1	MINIVAN	Ford	Aerostar	1988	2	48	FEMALE-NOT PREG	7=Unk. sev.
1	MINIVAN	Ford	Aerostar	1988	3	5	MALE	7=Unk. sev.

Occupant: 1997-78-70-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Vehicle exterior
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol
Presence	No ALCOHOL
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Ford Aerostar
Year	1988
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	152

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	6 B L 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	118.73714202
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DRIVER Factors

Age	55	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-78-70-1-1
MAIS	7=Unk. sev.
Seat Position	Front left side

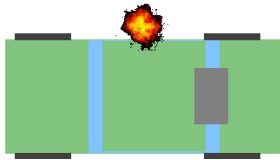
AIS Level	Injury Description	Contacts
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Occupant: 1997-78-70-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Vehicle exterior
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Aerostar
Year	1988
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	152

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	6 B L 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	118.73714202
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PASSENGER Factors

Age	48	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-78-70-1-2
MAIS	7=Unk. sev.
Seat Position	Front right side

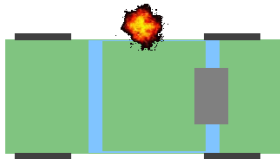
AIS Level	Injury Description	Contacts
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Occupant: 1997-78-70-1-3



Fire Information

Fire Occurrence	Major fire
Fire Origin	Vehicle exterior
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No fuel tank
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol
Presence	No ALCOHOL
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Ford Aerostar
Year	1988
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	152

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	6 B L 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	25
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	118.73714202
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PASSENGER Factors

Age	5	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Rollover Characteristics

Number of Events	4
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

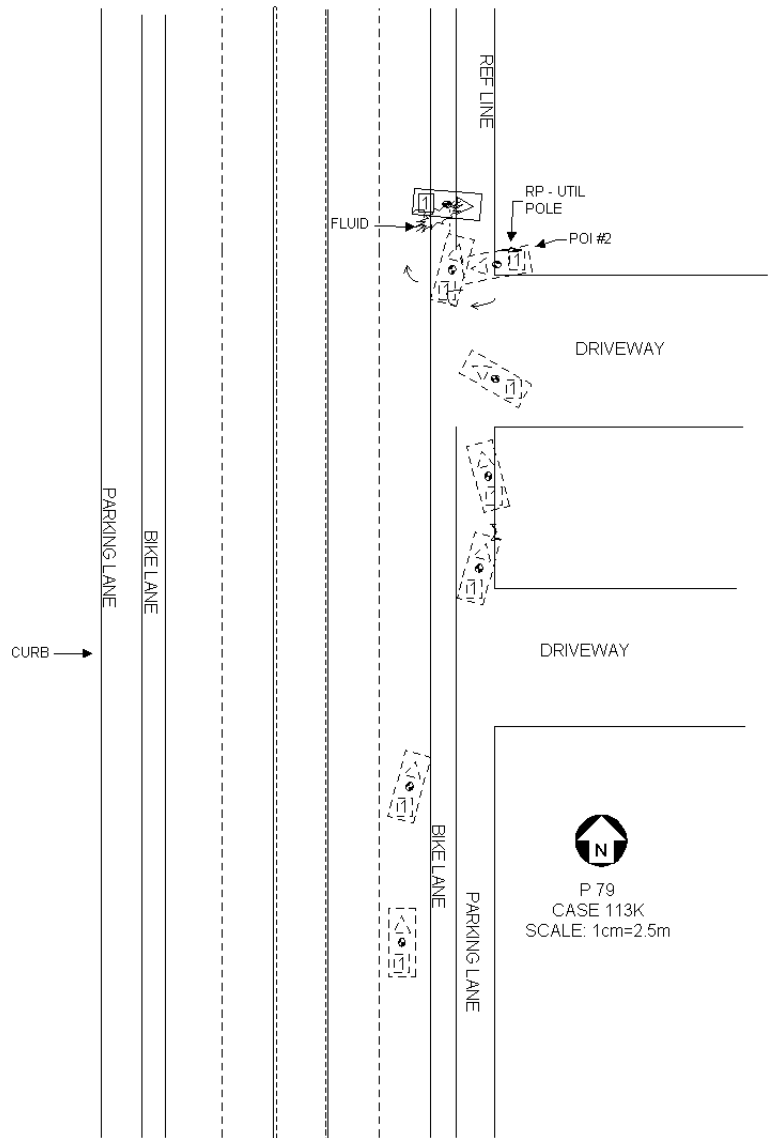
Occupant	1997-78-70-1-3
MAIS	7=Unk. sev.
Seat Position	Second middle

AIS Level	Injury Description	Contacts
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86 Case 1997-79-113

Summary:

V1 was heading north on a five lane, undivided, level, dry, asphalt roadway. V1 contacted the east curb with the right-front wheel and then rotated counterclockwise and continued heading north and contacted a power pole with the right-rear. V1 experienced a major fire which originated from the fuel tank, and then came to rest facing east blocking the northbound #1 lane. The driver of V1 was transported and hospitalized with serious injuries. The right-front occupant of V1 was not transported with complaints of pain.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Corolla	1987	1	19	MALE	5=Critical
1	4-DR SEDAN/HDTOP	Toyota	Corolla	1987	2	15	MALE	0=None

Occupant: 1997-79-113-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 6 -37
Est. δV with sequence number	DELTA V CODED 2
CDC	83 R Z A N 4
Damage (C1-C6)	32 55 63 57 30 0
Crush (L and D)	84 -102
Object Contacted 1	LARGE POLE
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	3.0277697443
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Toyota Corolla
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	97

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	19	Height	168	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-79-113-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Burn, 2nd or 3rd degree, 40	

Occupant: 1997-79-113-1-2



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deform+seam fail
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 6 -37
Est. δV with sequence number	DELTA V CODED 2
CDC	83 R Z A N 4
Damage (C1-C6)	32 55 63 57 30 0
Crush (L and D)	84 -102
Object Contacted 1	LARGE POLE
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	3.0277697443
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Toyota Corolla
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	97

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	15	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

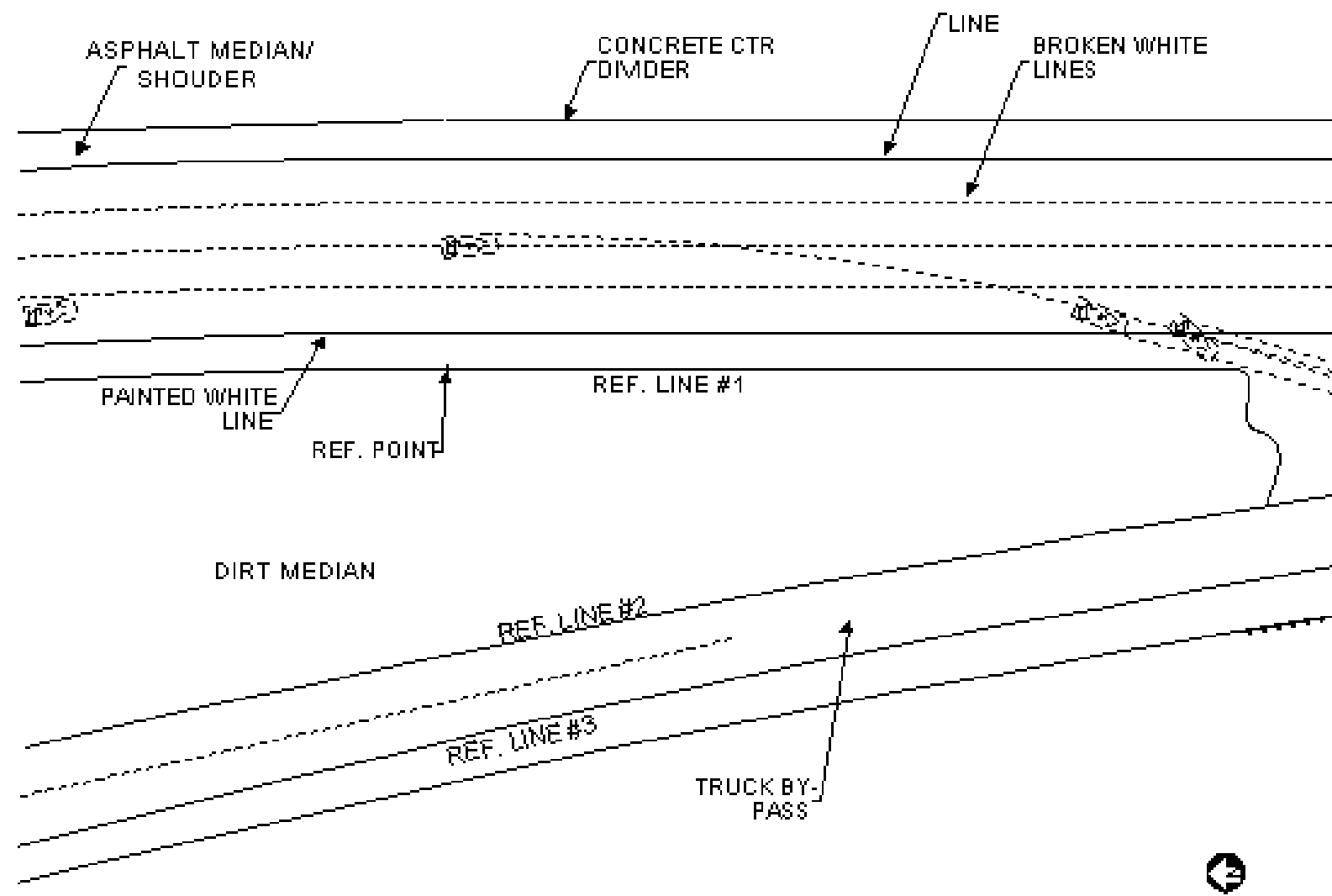
Occupant	1997-79-113-1-2
MAIS	0=None
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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87 Case 1997-79-40

Summary:

V1 was travelling south on a 4-lane, dry, divided, concrete freeway with a with a slight uphill grade and slight right curve. There is also a southbound, 2-lane, truck lane to the west which enters the 4 freeway lanes. V1 was changing lanes several times. While trying to change from the #1 to the #2 lane to pass another vehicle, V1 lost control and ran off the roadway to the right onto a dirt median, and then into a bridge wall on the west edge of the truck lanes. The driver of V1 was ejected and fatally injured. The RF occupant was transported with serious injuries and received an unknown level of treatment. V1 which had caught on fire, was towed from the scene.



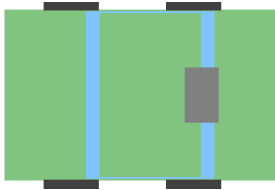
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	Unk AUTO TYPE	Acura	Integra	1995	1	22	MALE	5=Critical
1	Unk AUTO TYPE	Acura	Integra	1995	2	20	MALE	4=Severe

Occupant: 1997-79-40-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	5.3236465305
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Acura Integra
Year	1995
Class	Unknown
Body Type	Unk AUTO TYPE
Weight	0

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	22	Height	175	Weight	76
Gender			MALE		
Ejection			COMPLETE EJECT		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-79-40-1-1
MAIS	5=Critical
Seat Position	Front left side

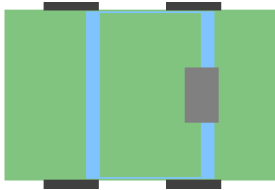
AIS Level	Injury Description	Contacts
1=Minor	Scalp laceration, minor	Unknown SOURCE
1=Minor	Neck skin abrasion	Unknown SOURCE
1=Minor	690202	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Unknown SOURCE
1=Minor	Facial skin abrasion	Unknown SOURCE
5=Critical	Unconscious on admission, inappropriate movements	Unknown SOURCE

Occupant: 1997-79-40-1-2



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	5.3236465305
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Acura Integra
Year	1995
Class	Unknown
Body Type	Unk AUTO TYPE
Weight	0

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	PASSING/OVERTAKE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	LATERAL SKID-CLK
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	20	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

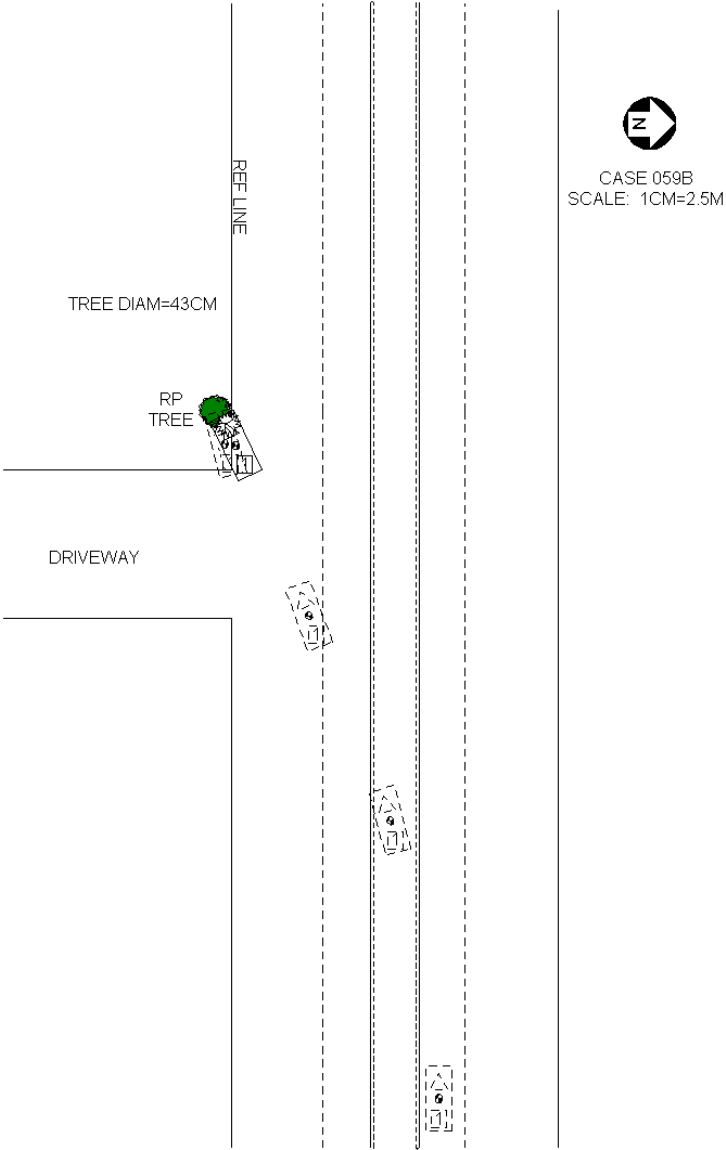
Occupant	1997-79-40-1-2
MAIS	4=Severe
Seat Position	Front right side

AIS Level	Injury Description	Contacts
4=Severe	Intracerebral hematoma, small subcortical	Unknown SOURCE
3=Serious	Cerebral subarachnoid hemorrhage	Unknown SOURCE
3=Serious	Cerebral contusion, NFS	Unknown SOURCE
2=Moderate	Metatarsal or tarsal fracture	Unknown SOURCE
2=Moderate	Kidney contusion (hematoma) NFS	Unknown SOURCE
3=Serious	Lung contusion NFS	Unknown SOURCE
2=Moderate	Cervical vertebral body fracture, no cord injury NFS	Unknown SOURCE
2=Moderate	Scalp laceration, major (>10 cms and into sub-Q)	Unknown SOURCE
2=Moderate	Carpus or metacarpus fracture	Unknown SOURCE
2=Moderate	Carpus or metacarpus fracture	Unknown SOURCE
2=Moderate	Carpus or metacarpus fracture	Unknown SOURCE
2=Moderate	Carpus or metacarpus fracture	Unknown SOURCE

88 Case 1997-79-59

Summary:

V1 was heading west on a 5-lane, undivided, level, dry, asphalt roadway. V1 crossed into the eastbound lanes and departed the roadway off the south curb, and contacted a large tree with the front end. After the collision V1 experienced a minor fire in the engine compartment. V1 was towed from the scene. The right-front passenger was fatally injured. The driver was transported and hospitalized with serious injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Spectrum	1987	1	20	MALE	5=Critical
1	4-DR SEDAN/HDTOP	Chevrolet	Spectrum	1987	2	29	MALE	6=Maximum

Occupant: 1997-79-59-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	96 -96 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F C E N 5
Damage (C1-C6)	31 101 105 104 99 51
Crush (L and D)	144 5
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	4.2881811634
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Spectrum
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	89

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	20	Height	180	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-79-59-1-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Cerebral contusion, single, small (<30ccs)	Steering comb
5=Critical	Unconscious on admission, inappropriate movements	Steering comb
3=Serious	Single rib fracture with hemo-/pneumothorax	Steering comb
4=Severe	Hepatic laceration, major (<502=Moderate	Radial fracture, closed
Steering comb 2=Moderate	Ulnar fracture, closed	Steering comb
2=Moderate	Metatarsal or tarsal fracture	Floor
1=Minor	Scalp laceration, minor	Steering rim
1=Minor	Thoracic skin abrasion	Belt webb/buckle
1=Minor	Abdominal skin abrasion	Steering rim

Occupant: 1997-79-59-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	96 -96 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F C E N 5
Damage (C1-C6)	31 101 105 104 99 51
Crush (L and D)	144 5
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	4.2881811634
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Spectrum
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	89

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	29	Height	170	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

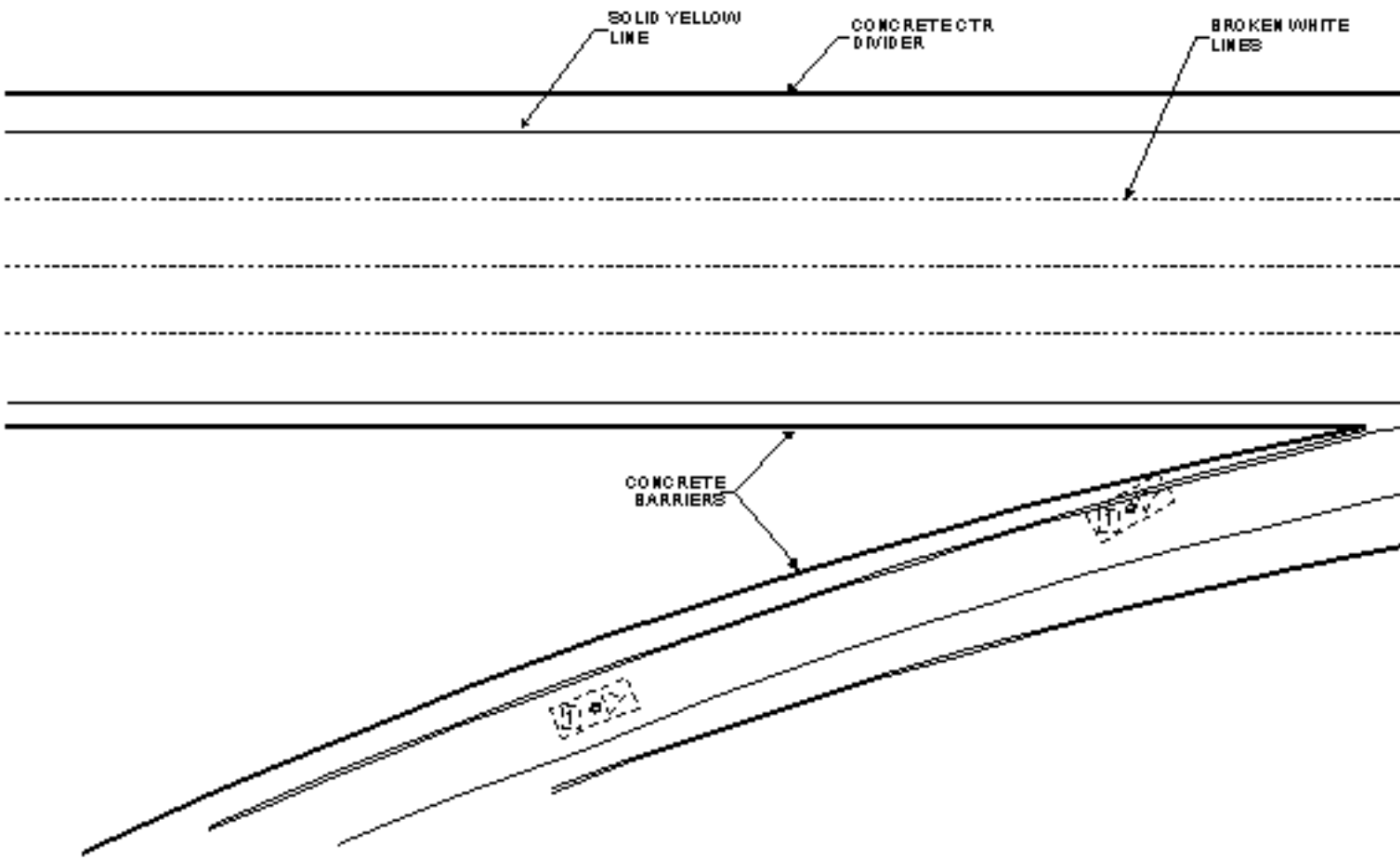
Occupant	1997-79-59-1-2
MAIS	6=Maximum
Seat Position	Front right side

AIS Level	Injury Description	Contacts
6=Maximum	Myocardial laceration with complex perforation	Right panel
2=Moderate	Hepatic laceration, minor (<3cms deep, EBL<204=Severe	Lung contusion, bilateral
Right panel		
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Right panel
6=Maximum	Complete cord syndrome, C3 or above, with fracture	Right panel
5=Critical	Brain stem hemorrhage	Right panel
4=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Right panel
1=Minor	Facial skin laceration, minor	Right panel
1=Minor	297602	Right panel

89 Case 1997-79-60

Summary:

V1 was travelling east on a 1-lane, uphill, dry, concrete, freeway onramp. V1 ran off the road to the left and impacted a concrete traffic barrier. V1 then continued out of control and impacted a concrete traffic to the right. V1 continued in a northeasterly direction, entering the freeway lanes and coming to rest across the #3 and #4 lanes facing northeast. V1 subsequently caught fire. The driver was transported and released with serious injuries. V1 was towed.



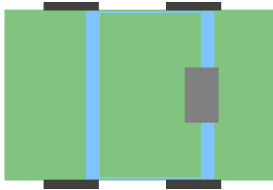
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	CONVERTIBLE	Chevrolet	Corvette	1990	1	27	MALE	2=Moderate

Occupant: 1997-79-60-1-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 0
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	19.919997197
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	ONE
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	8

Vehicle Factors

Make-Model	Chevrolet Corvette
Year	1990
Class	Unknown
Body Type	CONVERTIBLE
Weight	150

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	27	Height	155	Weight	88
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

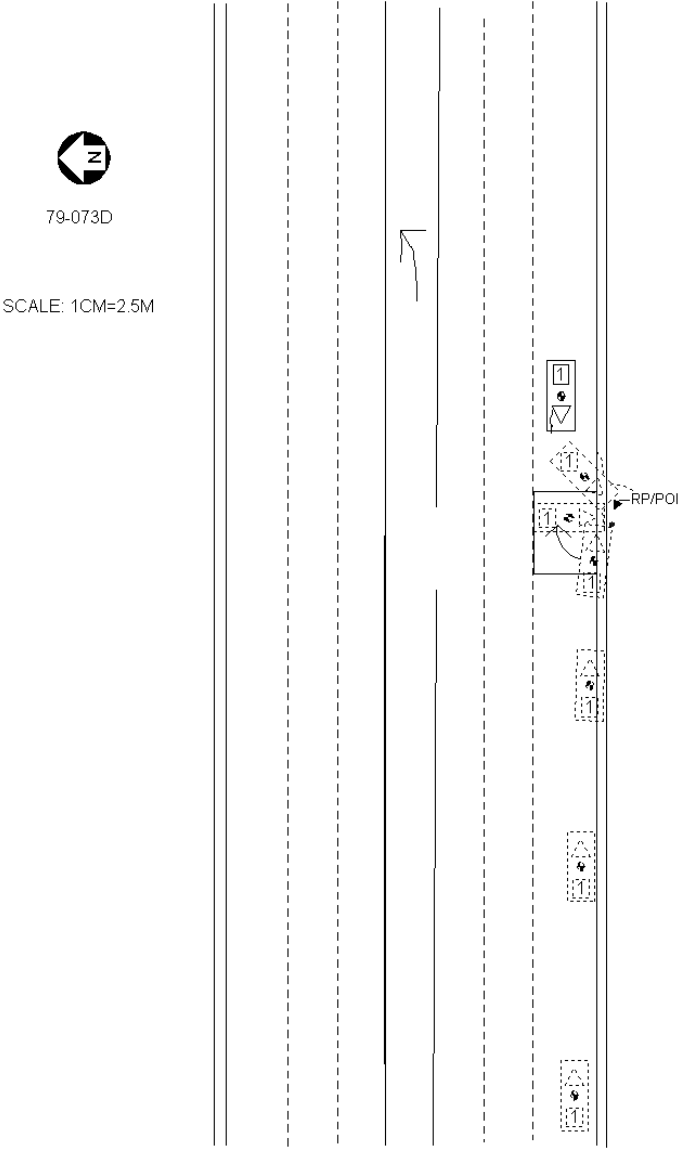
Occupant	1997-79-60-1-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Floor
1=Minor	Thoracic skin contusion	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Air bag-DR side
2=Moderate	Foot fracture NFS	Floor

90 Case 1997-79-73

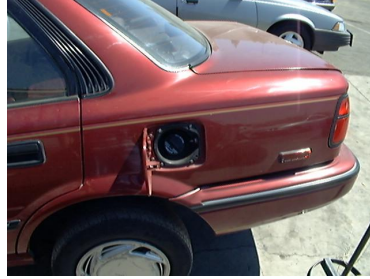
Summary:

V1 WAS EASTBOUND ON A 7 LANE UNDIVIDED URBAN ROADWAY. AS THE VEH. EXITED THE RIGHT (SOUTH) PAVEMENT EDGE IT STRUCK A UTILITY POLE RESULTING IN MODERATE FRONTAL DAMAGE. THE VEH. ROTATED CW OFF THE POLE COMING TO REST IN THE ROADWAY (EASTBOUND LANES) FACING WEST.



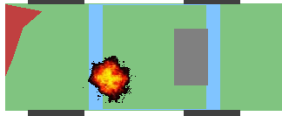
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Toyota	Corolla	1992	1	19	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Toyota	Corolla	1992	2	17	FEMALE-NOT PREG	2=Moderate
1	4-DR SEDAN/HDTOP	Toyota	Corolla	1992	3	18	MALE	1=Minor

Occupant: 1997-79-73-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Instrument panel
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	SEVEN OR MORE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -30 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F R A E 7
Damage (C1-C6)	0 1 11 20 28 56
Crush (L and D)	148 65
Object Contacted 1	MEDIUM POLE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	28.652521574
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Corolla
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	102

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	19	Height	165	Weight	57
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

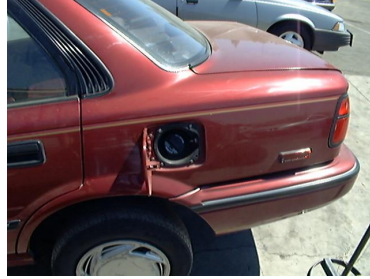
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-79-73-1-1
MAIS	1=Minor
Seat Position	Front left side

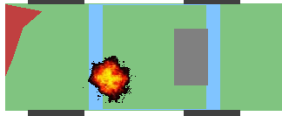
AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact
1=Minor	Neck skin abrasion	Belt webb/buckle
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle

Occupant: 1997-79-73-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Instrument panel
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	SEVEN OR MORE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -30 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F R A E 7
Damage (C1-C6)	0 1 11 20 28 56
Crush (L and D)	148 65
Object Contacted 1	MEDIUM POLE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	28.652521574
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Corolla
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	102

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	17	Height	160	Weight	49
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

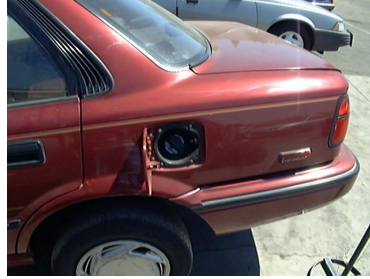
Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	1997-79-73-1-2
MAIS	2=Moderate
Seat Position	Front right side

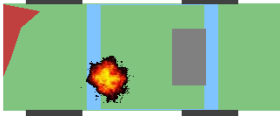
AIS Level	Injury Description	Contacts
2=Moderate	Fibular fracture, bi-malleolar or trimalleolar	Floor
2=Moderate	Ankle joint dislocation involving articular cartilage	Floor
2=Moderate	Tibial fracture medial malleolus, open/displaced/comminuted	Floor

Occupant: 1997-79-73-1-3



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Instrument panel
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	SEVEN OR MORE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	30 -30 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F R A E 7
Damage (C1-C6)	0 1 11 20 28 56
Crush (L and D)	148 65
Object Contacted 1	MEDIUM POLE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	28.652521574
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Toyota Corolla
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	102

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	18	Height	170	Weight	54
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

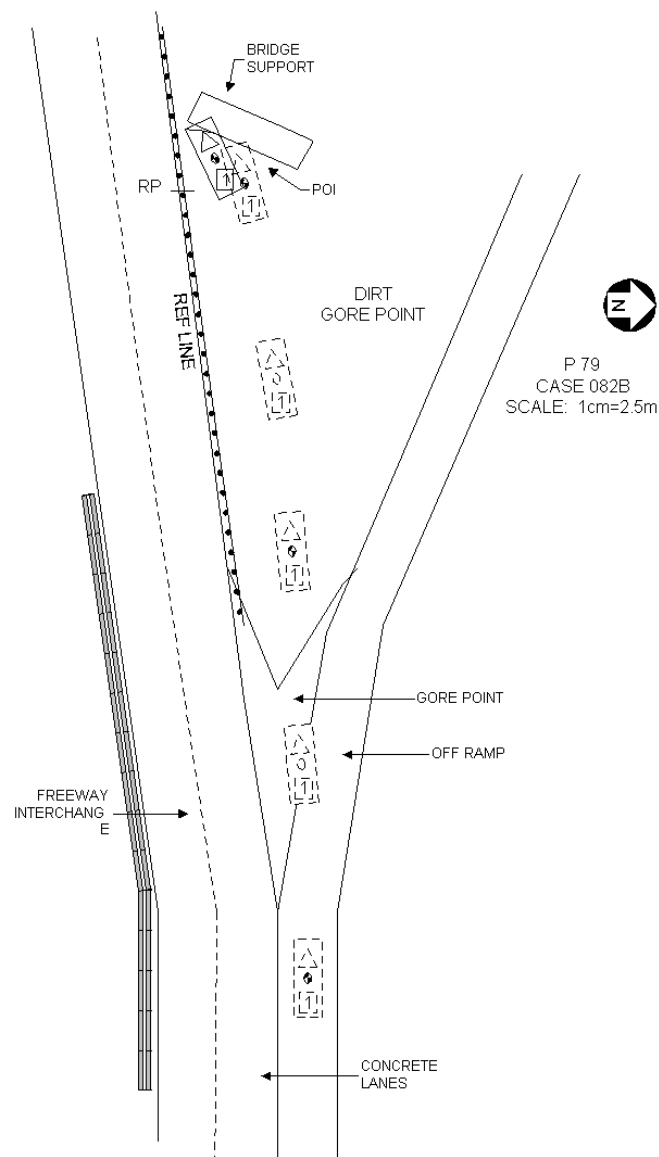
Occupant	1997-79-73-1-3
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Seat, back
1=Minor	Upper extremity skin contusion	Seat, back
1=Minor	Acute cervical spine strain without fracture or dislocation	Seat, back

91 Case 1997-79-82

Summary:

V1 was heading west in the #1 lane of a 3-lane, level, dry, divided concrete freeway. The #1 lane is an off ramp lane and the #2 and #3 lanes are an interchange to another freeway. V1 drove off the left side of the road into the gore point separating the #1 and #2 lanes. V1 continued heading west and contacted a bridge support with the front end. V1 then caught fire and completely burned. The driver of V1 received fatal injuries. V1 was towed from the scene.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Chevrolet	Celebrity	1988	1	20	MALE	6=Maximum

Occupant: 1997-79-82-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	THREE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	79 -78 -14
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 5
Damage (C1-C6)	23 47 67 86 113 136
Crush (L and D)	166 0
Object Contacted 1	Oth FIXED OBJECT
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	3.0346822807
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Chevrolet Celebrity
Year	1988
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	125

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	CHANGING LANES
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	20	Height	165	Weight	66
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			JAMMED DOOR/FIRE		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

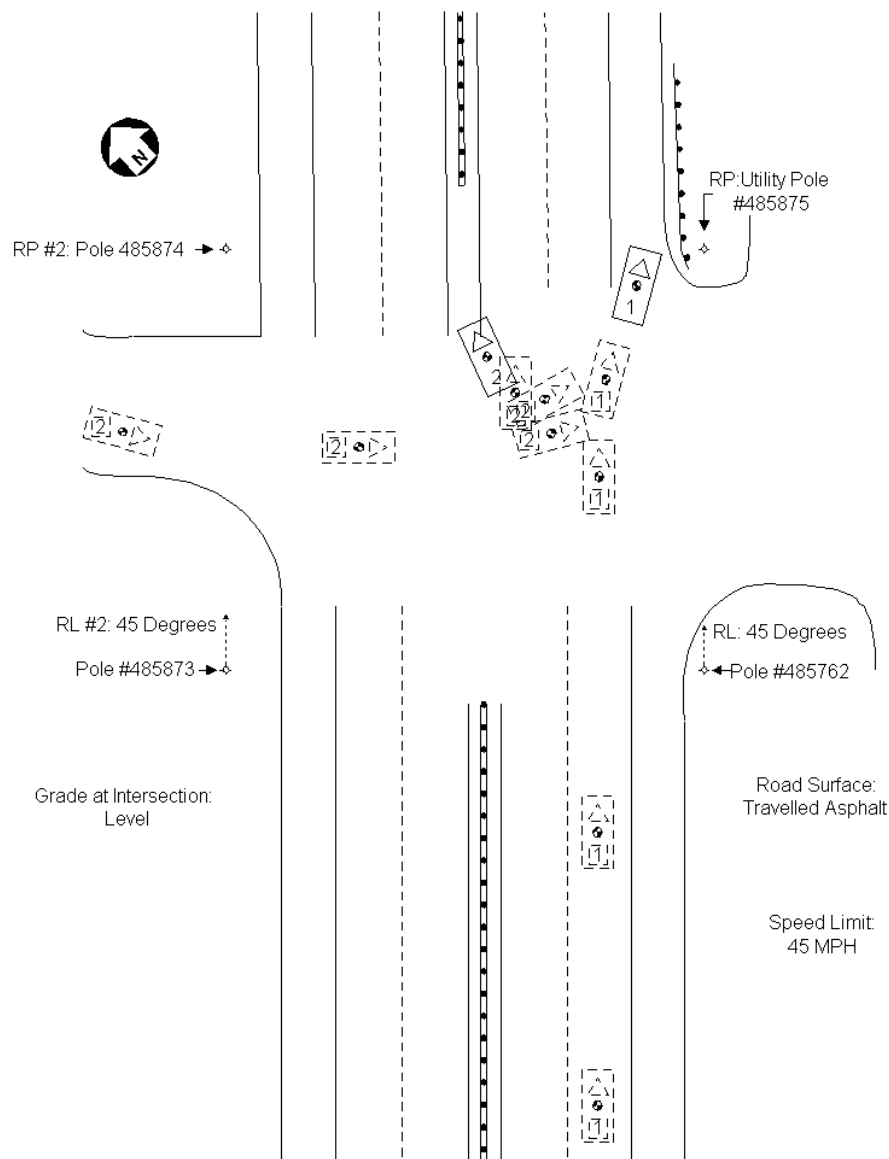
Occupant	1997-79-82-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >903=Serious	Skull fracture, vault, comminuted (compound, depressed)
Windshld DR side 4=Severe	Cerebral intraventricular hemorrhage	Windshld DR side
3=Serious	Cerebral contusions, multiple, bilateral, small	Windshld DR side
5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	Windshld DR side
4=Severe 4=Severe	Cerebral laceration >3 rib fxs on one side & <3 other side & hemo-/pneumothorax	Windshld DR side Left interior
4=Severe	Cerebral edema, moderate (compressed ventricles&cisterns)	Windshld DR side
4=Severe	Cerebral edema, moderate (compressed ventricles&cisterns)	Windshld DR side

92 Case 1997-8-122

Summary:

V1 was travelling north approaching a four-way intersection on a two lane asphalt roadway. V2 was travelling east on a one-wy roadway approaching the same intersection to turn left to go north. As V2 started to make it's turn left, the front of V1 struck the right side of V2. After the impact with V2, V1 caught fire in the engine compartment. V1 came to final rets facing north partially on th road and berm. V2 came to rest facing north on the road. V1 was towed and V2 was driven from the scene. There were no transported occupants.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	LARGE UTILITY	Jeep	Cherokee-83	1995	1	31	FEMALE-NOT PREG	1=Minor
1	LARGE UTILITY	Jeep	Cherokee-83	1995	2	4	FEMALE-NOT PREG	1=Minor
1	LARGE UTILITY	Jeep	Cherokee-83	1995	3	57	FEMALE-NOT PREG	1=Minor

Occupant: 1997-8-122-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	14 -14 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F L E N 2
Damage (C1-C6)	34 15 16 16 15 10
Crush (L and D)	145 -46
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	1158.4022691
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee-83
Year	1995
Class	TRUCK
Body Type	LARGE UTILITY
Weight	180

Pre-Crash Driver Data

Accident Type	77
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-SAME DIR
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	31	Height	175	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-8-122-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin laceration, minor	Unknown SOURCE

Occupant: 1997-8-122-1-2



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	14 -14 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F L E N 2
Damage (C1-C6)	34 15 16 16 15 10
Crush (L and D)	145 -46
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	1158.4022691
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee-83
Year	1995
Class	TRUCK
Body Type	LARGE UTILITY
Weight	180

Pre-Crash Driver Data

Accident Type	77
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-SAME DIR
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	4	Height	109	Weight	20
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-8-122-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Abdominal skin contusion	Belt webb/buckle

Occupant: 1997-8-122-1-3



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	14 -14 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F L E N 2
Damage (C1-C6)	34 15 16 16 15 10
Crush (L and D)	145 -46
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	1158.4022691
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee-83
Year	1995
Class	TRUCK
Body Type	LARGE UTILITY
Weight	180

Pre-Crash Driver Data

Accident Type	77
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-SAME DIR
Attempted Avoidance Manuever	BRAKE+STEER RT
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	Left TRAVEL LANE

PASSENGER Factors

Age	57	Height	163	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

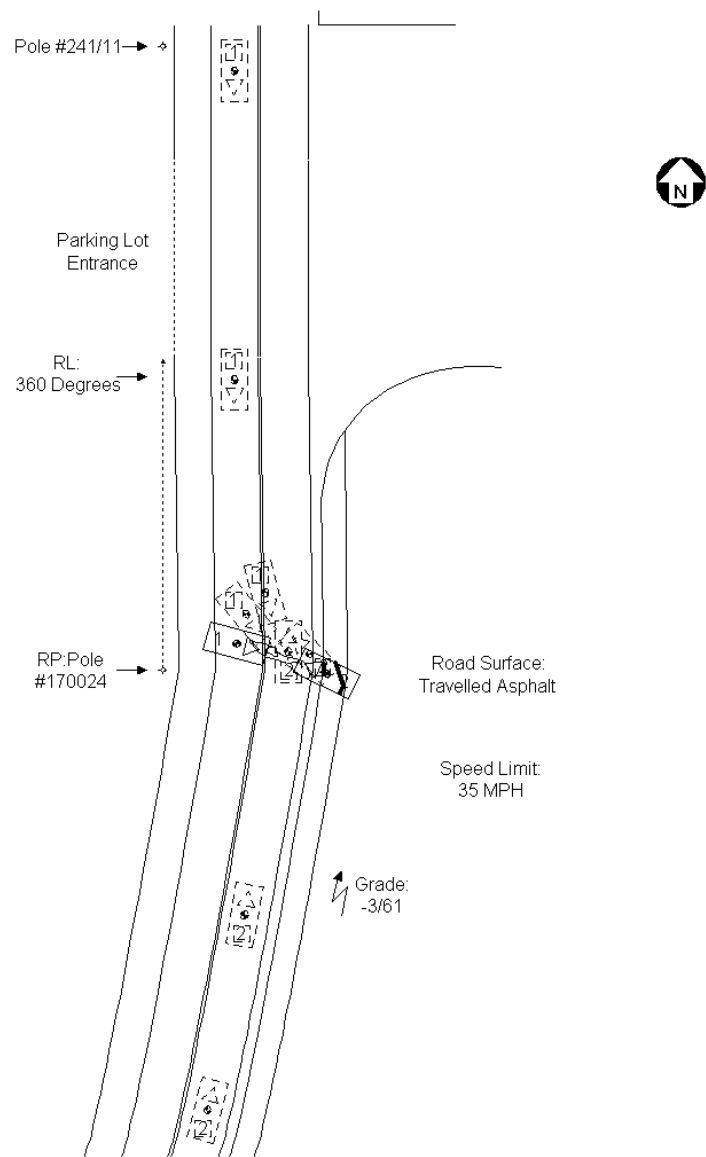
Occupant	1997-8-122-1-3
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Seat, back
1=Minor	Leg skin contusion (hematoma)	Transmiss lever

93 Case 1997-8-197

Summary:

V1 and V2 were both travelling on a two lane asphalt roadway with V1 travelling south and V2 travelling north. V1 was just rounding a curve to the right when the front of V1 struck the front of V2. Both vehicles were towed due to severe damage. V101 was transpoted by ambulance to a trauma center and V201 was transported by helicopter to a medical center, both due to injuries.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Buick	Century	1985	1	41	FEMALE-NOT PREG	2=Moderate
2	4-DR SEDAN/HDTOP	Nissan	Sentra	1987	1	75	FEMALE-NOT PREG	5=Critical

Occupant: 1997-8-197-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	56 -56 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 4
Damage (C1-C6)	94 97 82 47 18 0
Crush (L and D)	156 25
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	33.288048011
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Buick Century
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	128

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	41	Height	158	Weight	60
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-8-197-1-1
MAIS	2=Moderate
Seat Position	Front left side

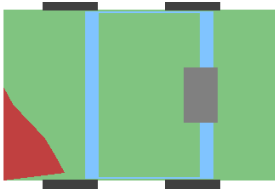
AIS Level	Injury Description	Contacts
1=Minor	Nose fracture NFS	Steering rim
1=Minor	Teeth avulsion	Steering rim
1=Minor	Leg skin laceration, minor	Left apnel
2=Moderate	Ulnar fracture NFS	Unknown SOURCE

Occupant: 1997-8-197-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	70 -70 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 4
Damage (C1-C6)	89 75 61 37 14 0
Crush (L and D)	148 30
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	33.288048011
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Nissan Sentra
Year	1987
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	100

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	75	Height	168	Weight	77
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

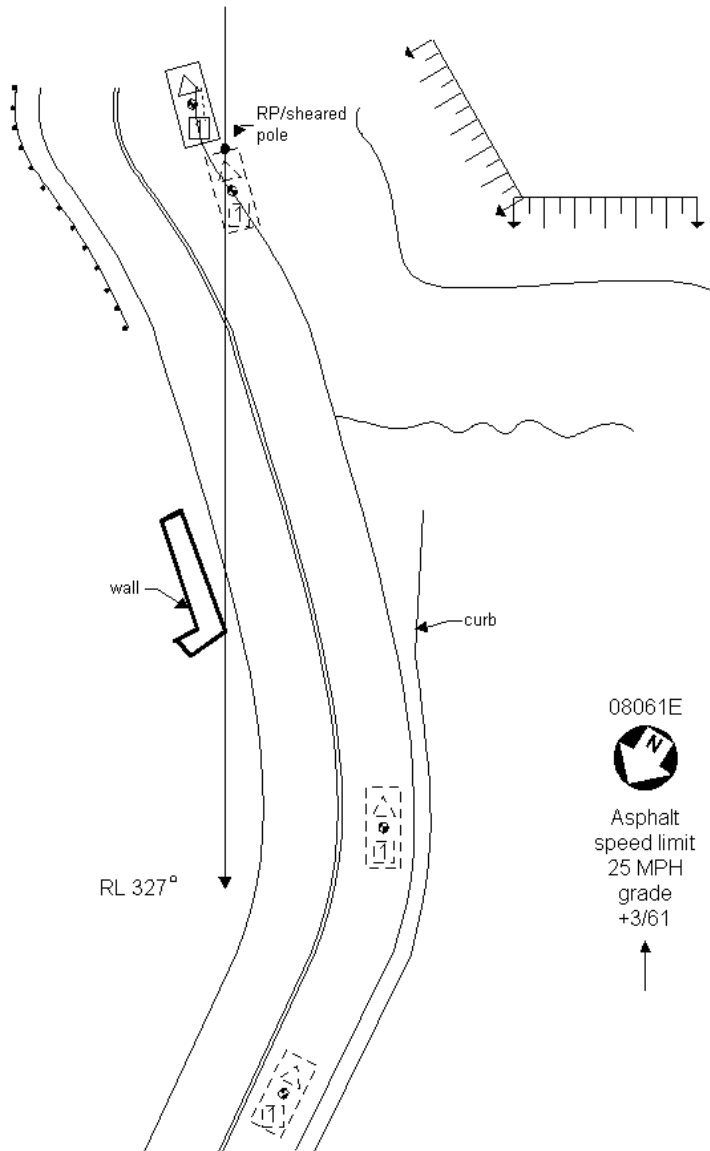
Injuries

Occupant	1997-8-197-2-1
MAIS	5=Critical
Seat Position	Front left side

AIS Level	Injury Description	Contacts
5=Critical	Flail chest, bilateral	Sterring hub
1=Minor	Facial skin contusion	Windshield
1=Minor	Facial skin abrasion	Windshield
1=Minor	Thoracic skin contu- sion	Steering rim
1=Minor	Awake on admission, NFS	Left A pillar
2=Moderate	Humeral fracture NFS	Steering rim
2=Moderate	Foot fracture NFS	Floor
1=Minor	Leg skin laceration NFS	Floor
2=Moderate	Thoracic vertebral body fracture, minor (<20	

94 Case 1997-8-61

Summary:
V1 was travelling South on a 2 lane roadway. V1 departed the right road edge. The front of V1 contacted and sheared a utility pole. V1 came to rest on top of the base of the sheared pole at which time the engine compartment caught fire.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Dodge	Stealth	1994	1	29	FEMALE-NOT PREG	1=Minor
1	3DR/2DR HATCHBAK	Dodge	Stealth	1994	2	24	FEMALE-NOT PREG	3=Serious

Occupant: 1997-8-61-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	23

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	7 20 40 25 13 2
Crush (L and D)	152 15
Object Contacted 1	MEDIUM POLE
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	790.52491393
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Stealth
Year	1994
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	139

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	29	Height	165	Weight	63
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-8-61-1-1
MAIS	1=Minor
Seat Position	Front left side

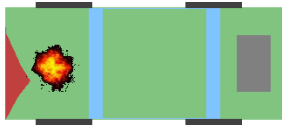
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Air bag-DR side
1=Minor	Facial skin abrasion	Air bag-DR side
1=Minor	Facial skin contusion	Roof

Occupant: 1997-8-61-1-2



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	23

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 2
Damage (C1-C6)	7 20 40 25 13 2
Crush (L and D)	152 15
Object Contacted 1	MEDIUM POLE
Object Contacted 2	MEDIUM POLE

NASS Weighting Factor

Weighting factor	790.52491393
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Dodge Stealth
Year	1994
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	139

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	24	Height	165	Weight	63
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

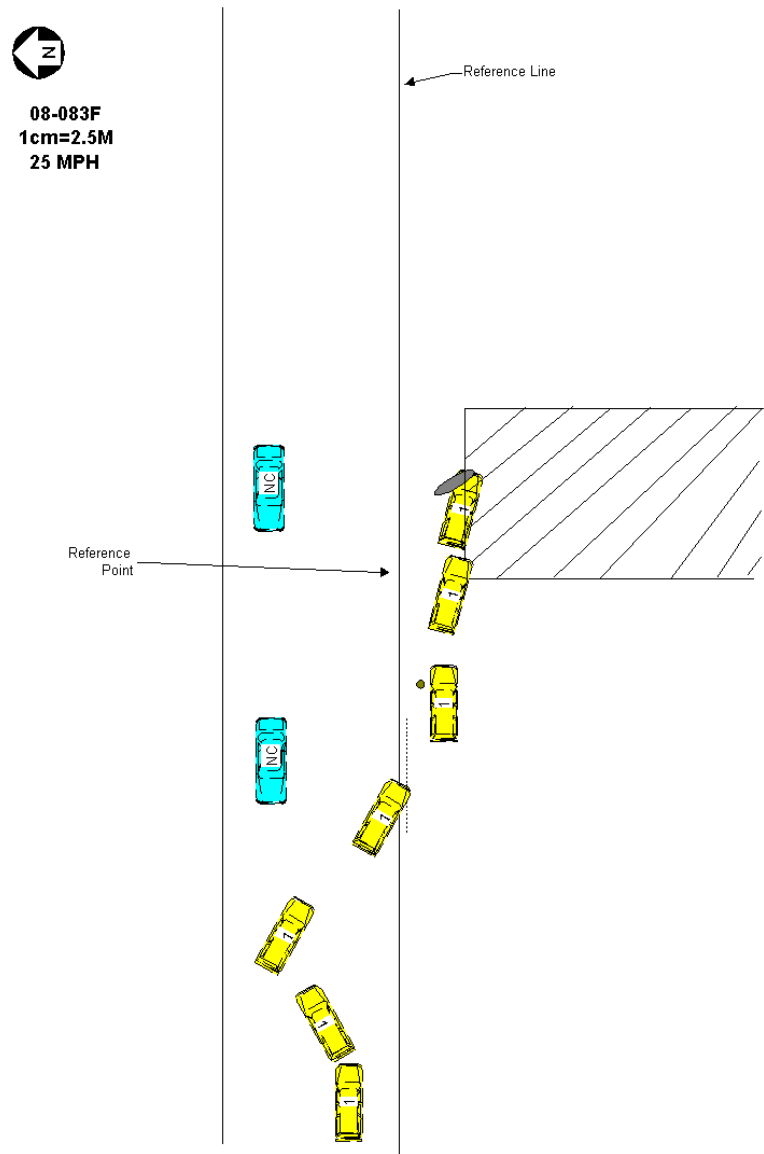
Occupant	1997-8-61-1-2
MAIS	3=Serious
Seat Position	Front right side

AIS Level	Injury Description	Contacts
3=Serious	Cervical odontoid (dens) fracture, no cord injury	Air bag-PS side
1=Minor	Thoracic skin contusion	Air bag-PS side
1=Minor	Mandible fracture NFS	Air bag-PS side
1=Minor	Awake on admission, NFS	Air bag-PS side

95 Case 1997-8-83

Summary:

The 1992 Jeep Cherokee 4x4 was traveling Eastbound on the two lane roadway when the driver lost control and departed the roadway to the right. After initially impacting a curb and a tree, the car then crashed into a building where it caught on fire. The driver and occupants all departed the car and fled the scene on foot. The car was towed from the scene. The driver later stated that an unknown pedestrian had thrown something at the car, causing her to take evasive actions by swerving to the right.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	Cherokee84-	1992	1	16	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Jeep	Cherokee84-	1992	2	15	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Jeep	Cherokee84-	1992	3	20	FEMALE-NOT PREG	1=Minor
1	COMPACT UTILITY	Jeep	Cherokee84-	1992	4	16	FEMALE-NOT PREG	1=Minor

Occupant: 1997-8-83-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 4
CDC	12 F D E W 2
Damage (C1-C6)	19 29 41 22 8 4
Crush (L and D)	152 0
Object Contacted 1	BUILDING
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	560.8789888
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1992
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	142

Pre-Crash Driver Data

Accident Type	5
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	16	Height	168	Weight	82
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-8-83-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Shoulder sprain (glenohumeral joint)	Other noncontact
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Unknown SOURCE
1=Minor	Elbow joint sprain	Unknown SOURCE

Occupant: 1997-8-83-1-2



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 4
CDC	12 F D E W 2
Damage (C1-C6)	19 29 41 22 8 4
Crush (L and D)	152 0
Object Contacted 1	BUILDING
Object Contacted 2	LARGE TREE

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1992
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	142

Pre-Crash Driver Data

Accident Type	5
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

NASS Weighting Factor

Weighting factor	560.8789888
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

PASSENGER Factors

Age	15	Height	165	Weight	54
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-8-83-1-2
MAIS	1=Minor
Seat Position	Front right side

AIS Level	Injury Description	Contacts
1=Minor	Leg skin abrasion	Right panel
1=Minor	Scalp contusion	Unknown SOURCE
1=Minor	Upper extremity skin contusion	Other noncontact
1=Minor	Shoulder sprain (glenohumeral joint)	Other noncontact
1=Minor	Upper extremity skin abrasion	Unknown SOURCE
1=Minor	Leg skin abrasion	Right panel
1=Minor	Leg skin laceration	Right panel
	NFS	

Occupant: 1997-8-83-1-3



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 4
CDC	12 F D E W 2
Damage (C1-C6)	19 29 41 22 8 4
Crush (L and D)	152 0
Object Contacted 1	BUILDING
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	560.8789888
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1992
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	142

Pre-Crash Driver Data

Accident Type	5
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	20	Height	158	Weight	82
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-8-83-1-3
MAIS	1=Minor
Seat Position	Second left

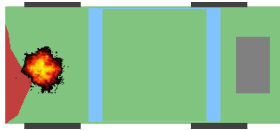
AIS Level	Injury Description	Contacts
1=Minor	Facial skin contusion	Seat, back
1=Minor	Leg skin contusion (hematoma)	Seat, back

Occupant: 1997-8-83-1-4



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compartment
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 4
CDC	12 F D E W 2
Damage (C1-C6)	19 29 41 22 8 4
Crush (L and D)	152 0
Object Contacted 1	BUILDING
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	560.8789888
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Rollover Characteristics

Number of Events	6
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Jeep Cherokee84-
Year	1992
Class	TRUCK
Body Type	COMPACT UTILITY
Weight	142

Pre-Crash Driver Data

Accident Type	5
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	16	Height	168	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

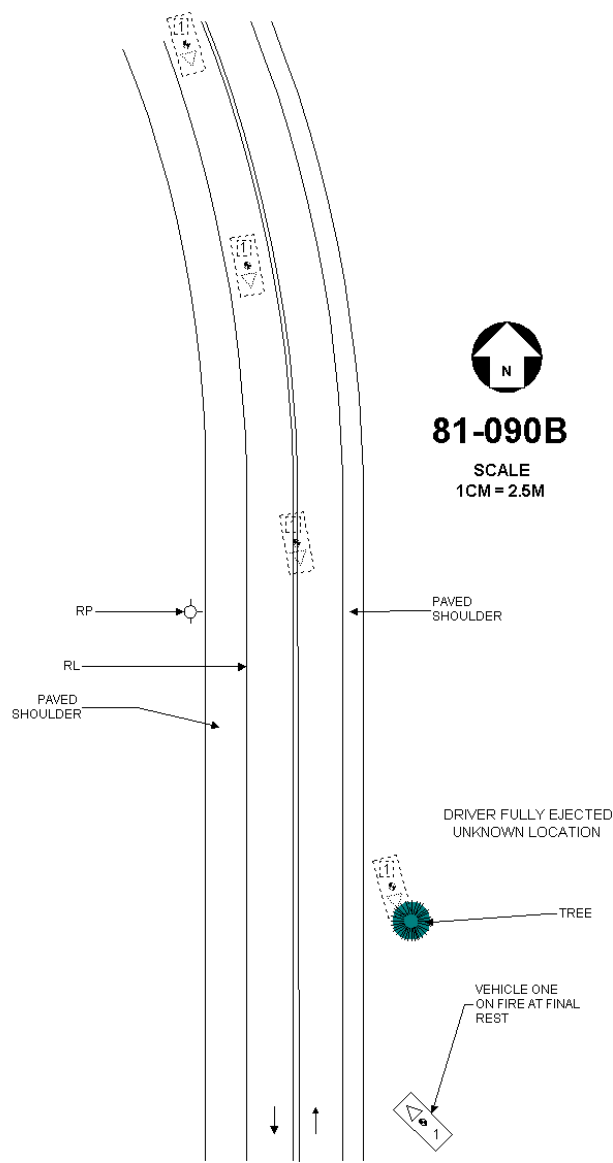
Injuries

Occupant	1997-8-83-1-4
MAIS	1=Minor
Seat Position	Second right

AIS Level	Injury Description	Contacts
1=Minor	Shoulder sprain (glenohumeral joint)	Seat, back
1=Minor	Scalp contusion	Seat, back
1=Minor	Upper extremity skin contusion	Seat, back

96 Case 1997-81-90

Summary:
VEHICLE ONE WAS SOUTHBOUND ON A TWO LANE TWO WAY ROADWAY THAT CURVED TO THE RIGHT. AFTER THE SLIGHT CURVE VEHICLE ONE CONTINUED STRAIGHT ACROSS THE ON COMING LANE AND DEPARTED THE ROADWAY TO THE LEFT AND IMPACTED A TREE WITH THE FRONT AND ROTATED COUNTERCLOCKWISE PAST THE TREE. VEHICLE WAS THEN CAUGHT ON FIRE AND THE DRIVER WAS FULLY EJECTED NEAR THE CAR.



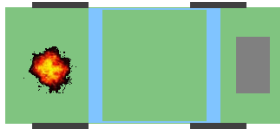
Vehicle#	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	2DR SEDAN/HT/CPE	Nissan	"Z-car,ZX"	1990	1	18	FEMALE-NOT PREG	6=Maximum

Occupant: 1997-81-90-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAWN
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported	Alcohol PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	7

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	72 F Y A W 9
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	LARGE TREE
Object Contacted 2	FENCE

NASS Weighting Factor

Weighting factor	12.977674006
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Nissan "Z-car,ZX"
Year	1990
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	146

Pre-Crash Driver Data

Accident Type	6
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	TRAVEL TOO FAST
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	18	Height	160	Weight	59
Gender					FEMALE-NOT PREG
Ejection					COMPLETE EJECT
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

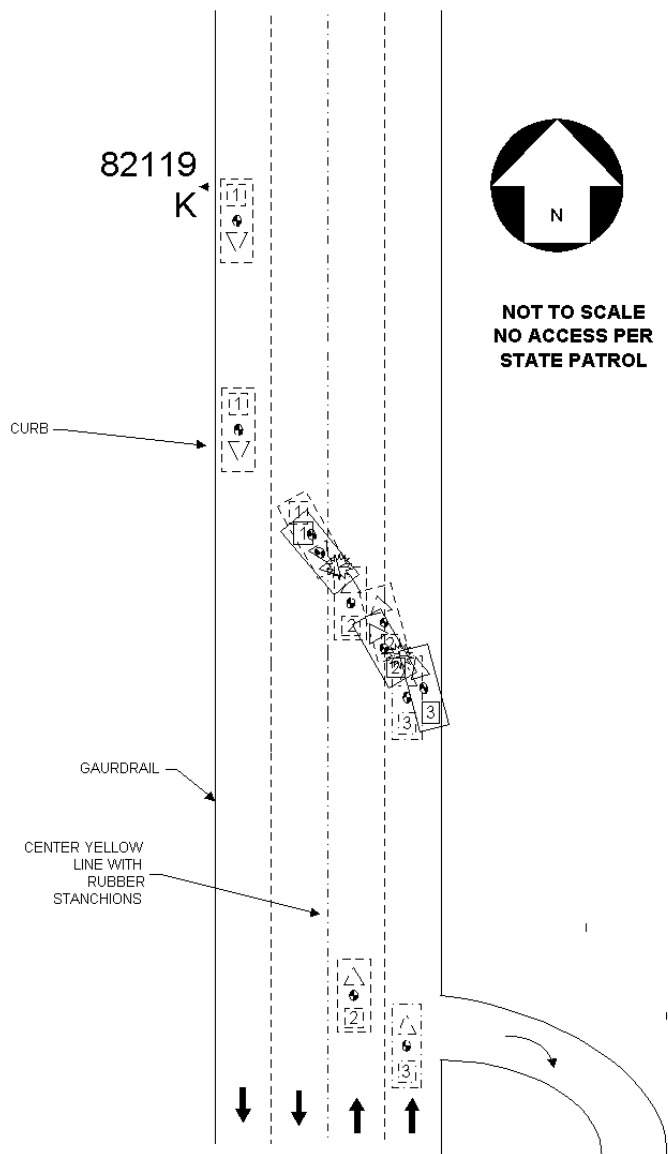
Occupant	1997-81-90-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Complete cord syndrome, C3 or above, with fracture	Unknown SOURCE
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Unknown SOURCE
3=Serious	Lung contusion, unilateral	Unknown SOURCE
2=Moderate	Small bowel contusion (hematoma)	Unknown SOURCE
3=Serious	Cerebral contusions, multiple, bilateral, small	Unknown SOURCE
1=Minor	Skin contusion (body region unknown)	Unknown SOURCE
1=Minor	Skin abrasion (body region unknown)	Unknown SOURCE
1=Minor	Skin laceration (body region unknown)	Unknown SOURCE

97 Case 1997-82-119

Summary:

VEHICLE 1 WAS SOUTH IN LANE 1 OF A 4 LANE, 2 WAY ROADWAY. VEHICLE 2 WAS NORH IN LANE 2 OF A 4 LANE, 2 WAY ROADWAY. VEHICLE 3 WAS SOUTH IN LANE 1 OF A 4 LANE, 2 WAY ROADWAY. VEHICLE 1 RAN OFF THE ROAD TO THE RIGHT THEN OVER THE LANE LINE ON THE LEFT. THE FRONT OF VEHICLE 1 IMPACTED THE FRONT OF VEHICLE 2. THE BACK OF VEHICLE 2 WAS PUSHED OVER THE LEFT LANE LINE. THE BACK OF VEHICLE 2 IMPACTED THE FRONT OF VEHICLE 3. 3 OCCUPANTS WERE TRANSPORTED DUE TO INJURIES. 3 VEHICLES WERE TOWED DISABLED.



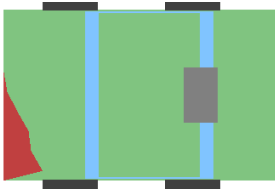
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	LARGE VAN	Chevrolet	G-series Van	1979	34	MALE	3=Serious
2	MINIVAN	Chevrolet	Astrovan	1992	42	MALE	2=Moderate
3	4-DR SEDAN/HDTOP	Mercedes	380-560 SEL/SEC	1985	33	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1997-82-119-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	33 -33 -6
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F Y E W 4
Damage (C1-C6)	57 41 37 21 6 0
Crush (L and D)	172 -42
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CURB

NASS Weighting Factor

Weighting factor	3.9054637535
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet G-series Van
Year	1979
Class	PASSENGER CAR
Body Type	LARGE VAN
Weight	180

Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	No DRIVER
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	34	Height	0	Weight	0
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap belt
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-82-119-1-1
MAIS	3=Serious
Seat Position	Front left side

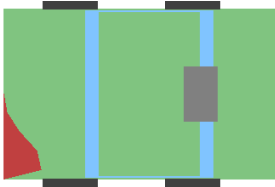
AIS Level	Injury Description	Contacts
3=Serious	Thoracic cavity injury NFS, with hemo- /pneumothorax	Steering comb
1=Minor	Thoracic skin abrasion	Steering comb
1=Minor	Thoracic skin contu- sion	Steering comb
1=Minor	Facial skin contusion	Steering rim
1=Minor	Facial skin contusion	Steering comb

Occupant: 1997-82-119-2-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Abraded
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	37 -35 13
Est. δV with sequence number	DELTA V CODED 2
CDC	11 F Y E W 5
Damage (C1-C6)	55 49 23 5 0 0
Crush (L and D)	168 -53
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 3

NASS Weighting Factor

Weighting factor	3.9054637535
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Chevrolet Astrovan
Year	1992
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	177

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	TRAVEL OPP DIR
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	42	Height	193	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-82-119-2-1
MAIS	2=Moderate
Seat Position	Front left side

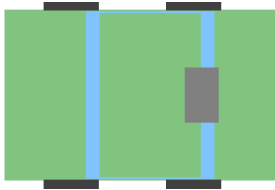
AIS Level	Injury Description	Contacts
2=Moderate	Awake on admission, unconscious <1 hour	Steering comb
1=Minor	Teeth dislocated or loosened	Steering comb
1=Minor	Facial skin contusion	Steering rim
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin abrasion	Left apnel

Occupant: 1997-82-119-3-1



Fire Information

Fire Occurrence	No data
Fire Origin	No data
Location of Fuel Leakage	No data
Type of Fuel Tank	No data
Fuel Tank Location	No data
Fuel Cap Location	No data
Fuel Tank Damage	No data
Fuel Type	No data



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	12 -12 1
Est. δV with sequence number	DELTA V CODED 3
CDC	No data No data No data No data
Damage (C1-C6)	No data No data No data No data
Crush (L and D)	No data No data
Object Contacted 1	No data
Object Contacted 2	No data

NASS Weighting Factor

Weighting factor	3.9054637535
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercedes 380-560 SEL/SEC
Year	1985
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	172

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	No DRIVER
Critical Pre-crash Event	Same DIR-OV LEFT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	33	Height	0	Weight	0
Gender			FEMALE-NOT PREG		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain		None used/avail
AOPS		YES-RES DET
Airbag Deployment		Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat		Not EQUIP/AVAIL
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

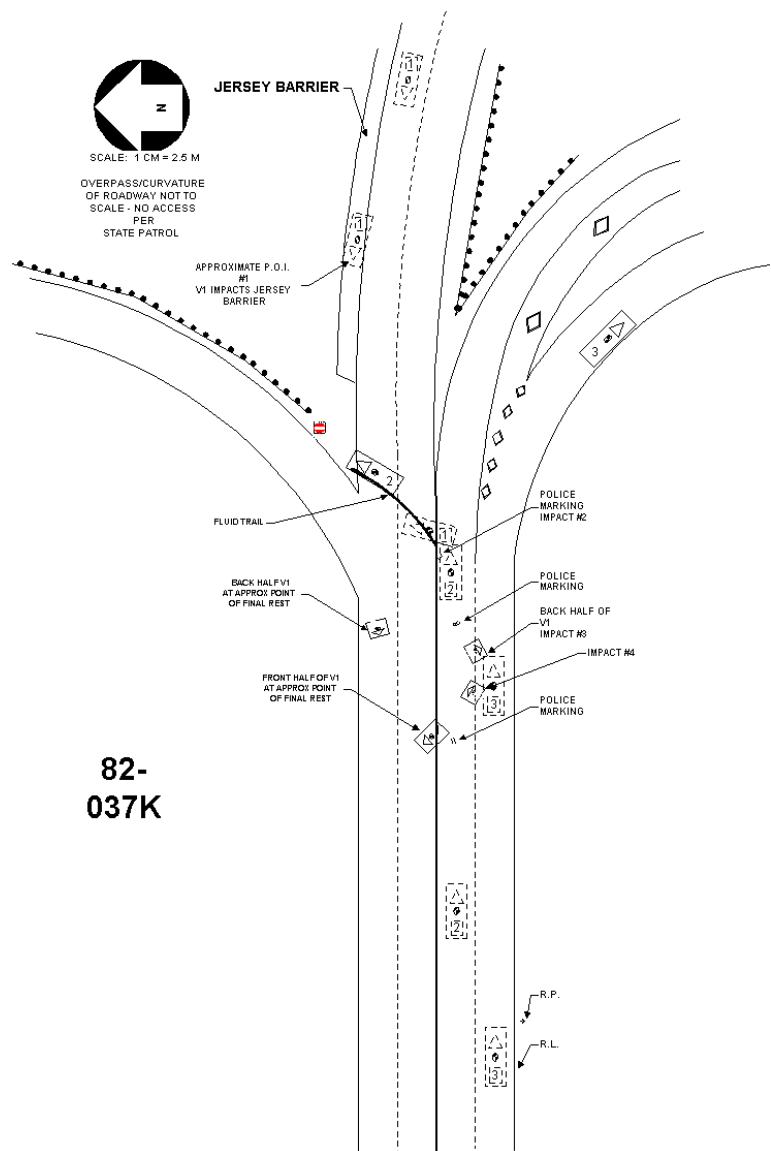
Occupant	1997-82-119-3-1
MAIS	7=Unk. sev.
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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98 Case 1997-82-37

Summary:

Vehicle #1 was traveling west in lane one of a two lane, one way freeway overpass. Vehicle #2 was traveling east in lane two of a four lane, two way roadway. Vehicle #3 was traveling east in lane one of the same roadway, approximately two car lengths behind V2. Vehicle #2 and #3 were approaching the freeway overpass when the FRONT of V1 impacted a jersey barrier on the north side of the overpass. The impact caused Vehicle #1 to go into a CW yaw; V1 rotated clockwise and skid laterally into V2's path of travel. The LEFT side of V1 impacted the FRONT of V2. Vehicle #2 crossed the two westbound lanes and came to final rest in the gore on the north side of the roadway. The force of the second impact caused V1 to rip in half; the FRONT of V1 impacted an unknown object/vehicle before coming to final rest, facing northwest ontop of the center lane divider. The back half of V1 then impacted V3 on V3's FRONT right bumper, and LEFT side. V3 came to final rest on the "exit only" ramp leading south of the overpass. The driver of V1 was transported to an area trauma center where he was hospitalized. The driver of V2 was transported to an area hospital where he was also hospitalized. The driver of V3 was slightly injured but was not transported. All three vehicles were towed disabled. NOTE: V1 cut in two along frame seamline - clean separation. Driver of V1 had only owned car for 3 months, purchased from an small, independent auto dealership. He did not know the history of the car or if it had been rebuilt.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Honda	Accord	1982	1	24	MALE	2=Moderate
2	5DR/4DR HATCHBAK	Saab	9000	1988	1	76	MALE	1=Minor
3	COMPACT PICKUP	Ford	Ranger	1995	1	49	MALE	1=Minor

Occupant: 1997-82-37-1-1

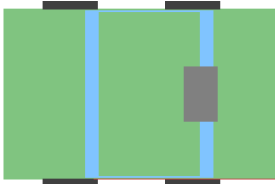


Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Lacerated
Fuel Type	Gasoline

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object	No rollover
Contacted	
Location on Vehicle where	No rollover
Principal Tripping Force was	
Applied	
Direction of Initial Roll	No rollover



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	58 25 52
Est. δV with sequence number	DELTA V CODED 2
CDC	8 L Z 9 W 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	CONCRETE BARRIER

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	DOWNHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Honda Accord
Year	1982
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	99

NASS Weighting Factor

Weighting factor	3.9054637535
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Pre-Crash Driver Data

Accident Type	1
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	24	Height	168	Weight	61
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-82-37-1-1
MAIS	2=Moderate
Seat Position	Front left side

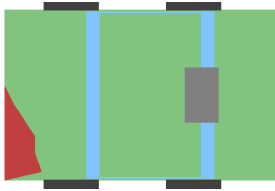
AIS Level	Injury Description	Contacts
1=Minor	Facial skin laceration, minor	Steering rim
1=Minor	Facial skin laceration, minor	Flying glass
1=Minor	Mouth injury NFS	Steering rim
1=Minor	Upper extremity skin abrasion	Left apnel
1=Minor	Leg skin abrasion	Left apnel
2=Moderate	Unconsciousness <1 hour	Steering rim

Occupant: 1997-82-37-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported	Alcohol Not REPORTED
Presence	
Alcohol Test (< 95 indicates	0
BAC 0.xx)	

Vehicle Factors

Make-Model	Saab 9000
Year	1988
Class	PASSENGER CAR
Body Type	5DR/4DR HATCHBAK
Weight	136

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	43 -42 7
Est. δV with sequence number	DELTA V CODED 2
CDC	12 F D E W 2
Damage (C1-C6)	54 45 45 29 13 1
Crush (L and D)	150 -20
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	3.9054637535
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DRIVER Factors

Age	76	Height	183	Weight	77
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	Lap and shoulder
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-82-37-2-1
MAIS	1=Minor
Seat Position	Front left side

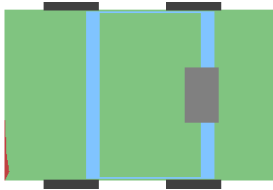
AIS Level	Injury Description	Contacts
1=Minor	Upper extremity skin contusion	Steering rim
1=Minor	Acute cervical spine strain without fracture or dislocation	Belt webb/buckle
1=Minor	Thoracic skin contusion	Belt webb/buckle

Occupant: 1997-82-37-3-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, left side
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 3
CDC	11 F L E E 1
Damage (C1-C6)	7 3 2 1 0 0
Crush (L and D)	152 -57
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	3.9054637535
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FOUR
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	Not REPORTED
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Ford Ranger
Year	1995
Class	TRUCK
Body Type	COMPACT PICKUP
Weight	135

Pre-Crash Driver Data

Accident Type	98
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	49	Height	183	Weight	86
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

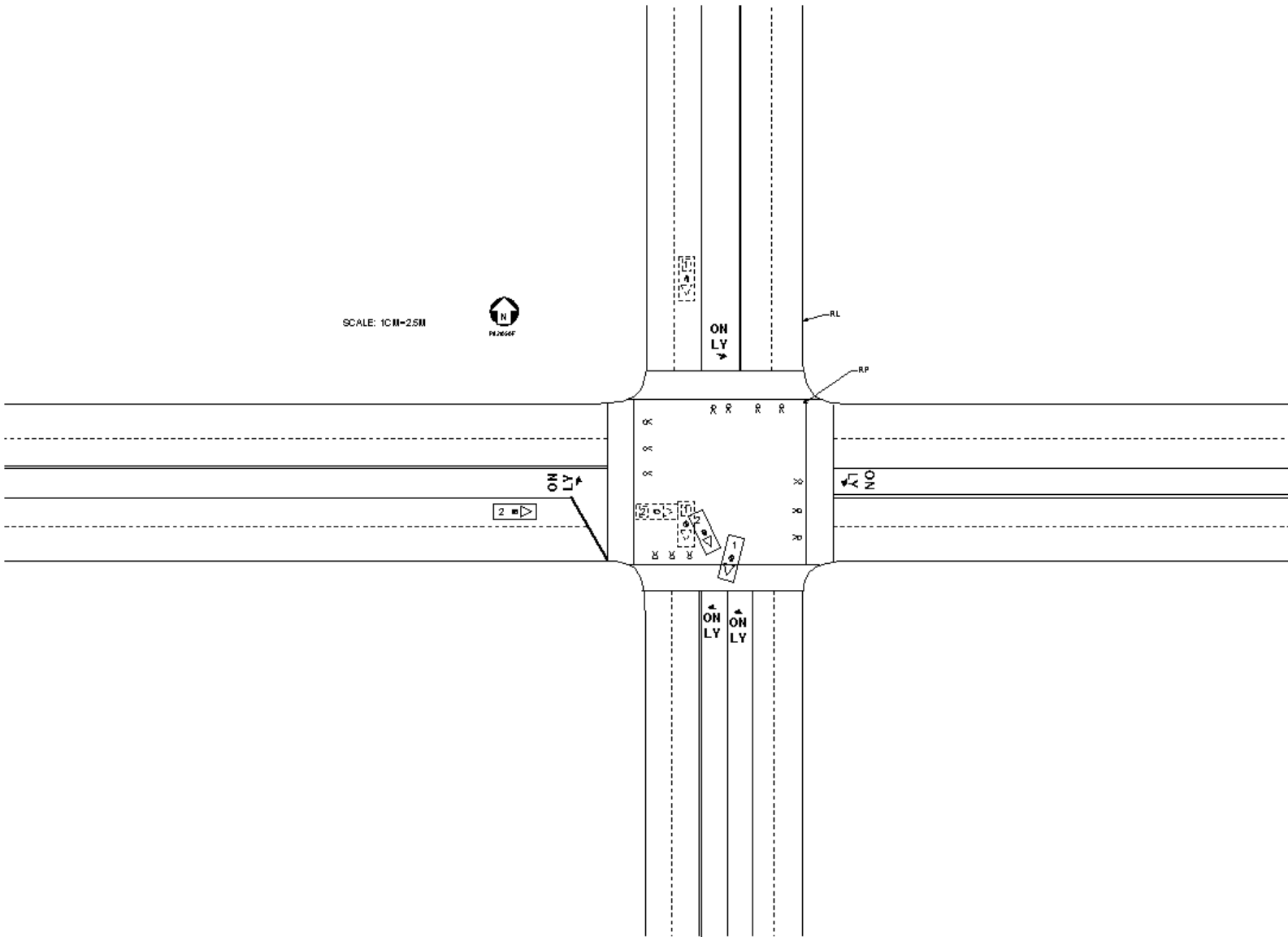
Occupant	1997-82-37-3-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Scalp contusion	Left window glas

99 Case 1997-82-50

Summary:

VEHICLE 1 WAS SOUTH BOUND IN LANE TWO OF A FIVE LANE, TWO WAY STREET. VEHICLE 2 WAS EAST BOUND IN LANE TWO OF AN INTERSECTING FIVE LANE, TWO WAY STREET. THE FRONT OF VEHICLE TWO IMPACTED THE RIGHT REAR OF VEHICLE 1 AS THE VEHICLES PASSED THROUGH THE INTERSECTION. AN OCCUPANT OF VEHICLE 1 WAS TRANSPORTED TO A LOCAL HOSPITAL. BOTH VEHICLES WERE TOWED DUE TO DAMAGE.



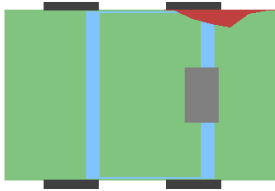
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	STATION WAGON	Mercury	Marquis/Monterey	1983	41	MALE	0=None
1	STATION WAGON	Mercury	Marquis/Monterey	1982	38	MALE	1=Minor
1	STATION WAGON	Mercury	Marquis/Monterey	1983	39	MALE	1=Minor
2	4-DR SEDAN/HDTOP	Ford	Taurus	1989	19	FEMALE-NOT PREG	0=None

Occupant: 1997-82-50-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1983
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	174

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	12 -6 -10
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R B E W 2
Damage (C1-C6)	0 12 19 25 5 0
Crush (L and D)	164 -233
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	168.51654226
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	41	Height	190	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-82-50-1-1
MAIS	0=None
Seat Position	Front left side

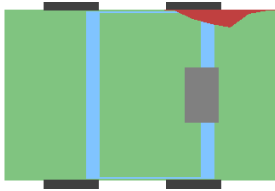
AIS Level	Injury Description	Contacts
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Occupant: 1997-82-50-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1983
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	174

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	12 -6 -10
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R B E W 2
Damage (C1-C6)	0 12 19 25 5 0
Crush (L and D)	164 -233
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	168.51654226
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PASSENGER Factors

Age	38	Height	188	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-82-50-1-2
MAIS	1=Minor
Seat Position	Front right side

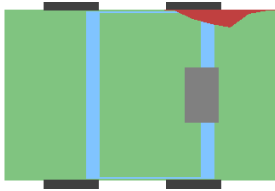
AIS Level	Injury Description	Contacts
1=Minor	Leg skin contusion (hematoma)	Right panel

Occupant: 1997-82-50-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Mercury Marquis/Monterey
Year	1983
Class	PASSENGER CAR
Body Type	STATION WAGON
Weight	174

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	12 -6 -10
Est. δV with sequence number	DELTA V CODED 1
CDC	2 R B E W 2
Damage (C1-C6)	0 12 19 25 5 0
Crush (L and D)	164 -233
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	87
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	CROSS OVER INTER
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	168.51654226
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PASSENGER Factors

Age	39	Height	178	Weight	68
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH Seat

Injuries

Occupant	1997-82-50-1-3
MAIS	1=Minor
Seat Position	Second right

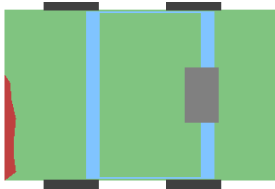
AIS Level	Injury Description	Contacts
1=Minor	Rib cage fracture NFS	Right interior
1=Minor	Scalp laceration, minor	Flying glass

Occupant: 1997-82-50-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	CONCRETE
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	16 -14 8
Est. δV with sequence number	DELTA V CODED 1
CDC	11 F D E W 1
Damage (C1-C6)	17 13 14 17 11 8
Crush (L and D)	156 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	168.51654226
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Ford Taurus
Year	1989
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	138

Pre-Crash Driver Data

Accident Type	86
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	XING ST-X PATH
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	19	Height	165	Weight	61
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

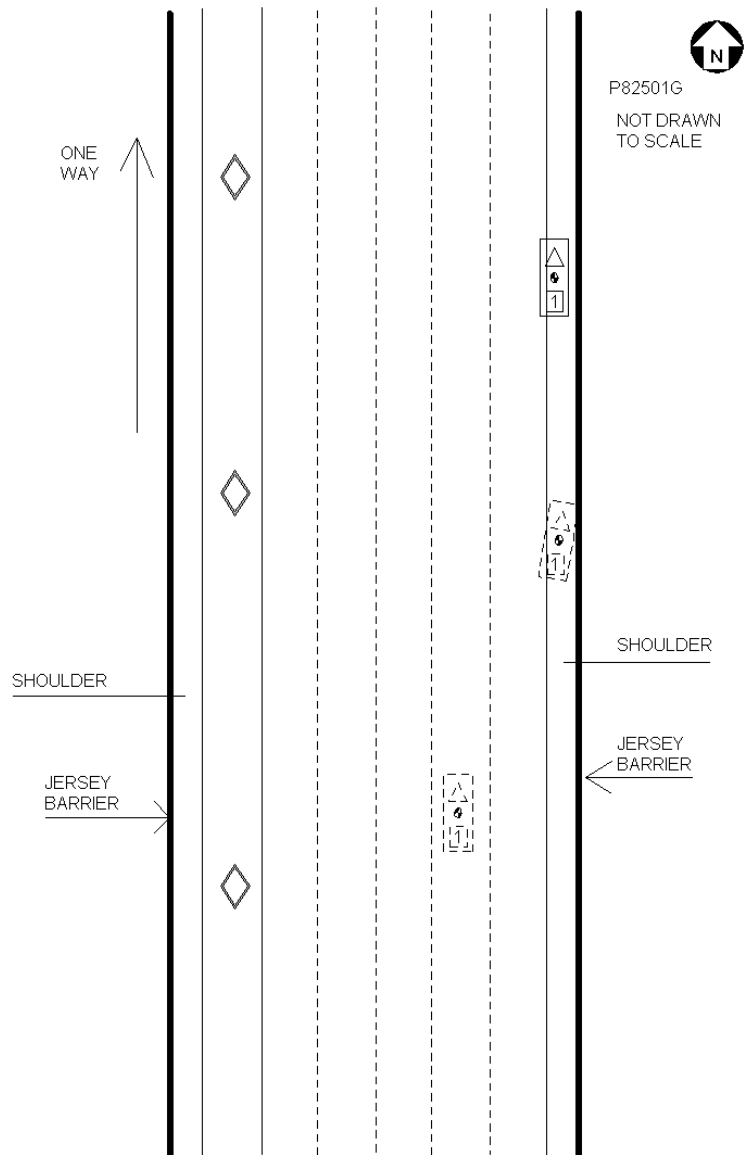
Occupant	1997-82-50-2-1
MAIS	0=None
Seat Position	Front left side

AIS Level	Injury Description	Contacts
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100 Case 1997-82-501

Summary:

VEHICLE 1 WAS NORTH BOUND IN LANE ONE OF A ONE WAY, FIVE LANE DIVIDED INTERSTATE HIGHWAY. VEHICLE 1 MOVED TO THE RIGHT ONTO THE SHOULDER WHERE IT IMPACTED A JERSEY BARRIER WITH ITS FRONT RIGHT. IMPACT CAUSED THE ENGINE TO CATCH ON FIRE. THE TWO OCCUPANTS OF THE VEHICLE WERE TRANSPORTED TO A LOCAL HOSPITAL. VEHICLE ONE WAS TOWED DUE TO DAMAGE.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	BMW	5-series	1995	1	27	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	BMW	5-series	1995	2	27	MALE	3=Serious

Occupant: 1997-82-501-1-1



Fire Information

Fire Occurence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -17 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	32 F R E E 4
Damage (C1-C6)	0 1 4 7 9 30
Crush (L and D)	148 61
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	7

Vehicle Factors

Make-Model	BMW 5-series
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	170

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	27	Height	0	Weight	0
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain		Lap and shoulder
AOPS		YES-RES DET
Airbag Deployment		BAG DEPLOYED
Airbag Deployment - 1 st Seat		DR
PAS BAG DEPLY		
Airbag Deployment - Oth Seat		Not EQUIP W/ OTH

Injuries

Occupant	1997-82-501-1-1
MAIS	1=Minor
Seat Position	Front left side

AIS Level	Injury Description	Contacts
1=Minor	Acute cervical spine strain without fracture or dislocation	Other noncontact

Occupant: 1997-82-501-1-2



Fire Information

Fire Occurence	Major fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	17 -17 < 0.5 KMPH
Est. δV with sequence number	DELTA V CODED 1
CDC	32 F R E E 4
Damage (C1-C6)	0 1 4 7 9 30
Crush (L and D)	148 61
Object Contacted 1	CONCRETE BARRIER
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	0
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/W/BARRIER
Number of Travel Lanes	FIVE
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	ALCOHOL PRESENT
Alcohol Test (< 95 indicates BAC 0.xx)	7

Vehicle Factors

Make-Model	BMW 5-series
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	170

Pre-Crash Driver Data

Accident Type	2
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OFF EDGE-RIGHT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	27	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-82-501-1-2
MAIS	3=Serious
Seat Position	Front right side

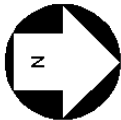
AIS Level	Injury Description	Contacts
3=Serious	Lumbar fracture of vertebral body >201=Minor	Facial skin contusion
Oth interior obj		

101 Case 1997-82-63

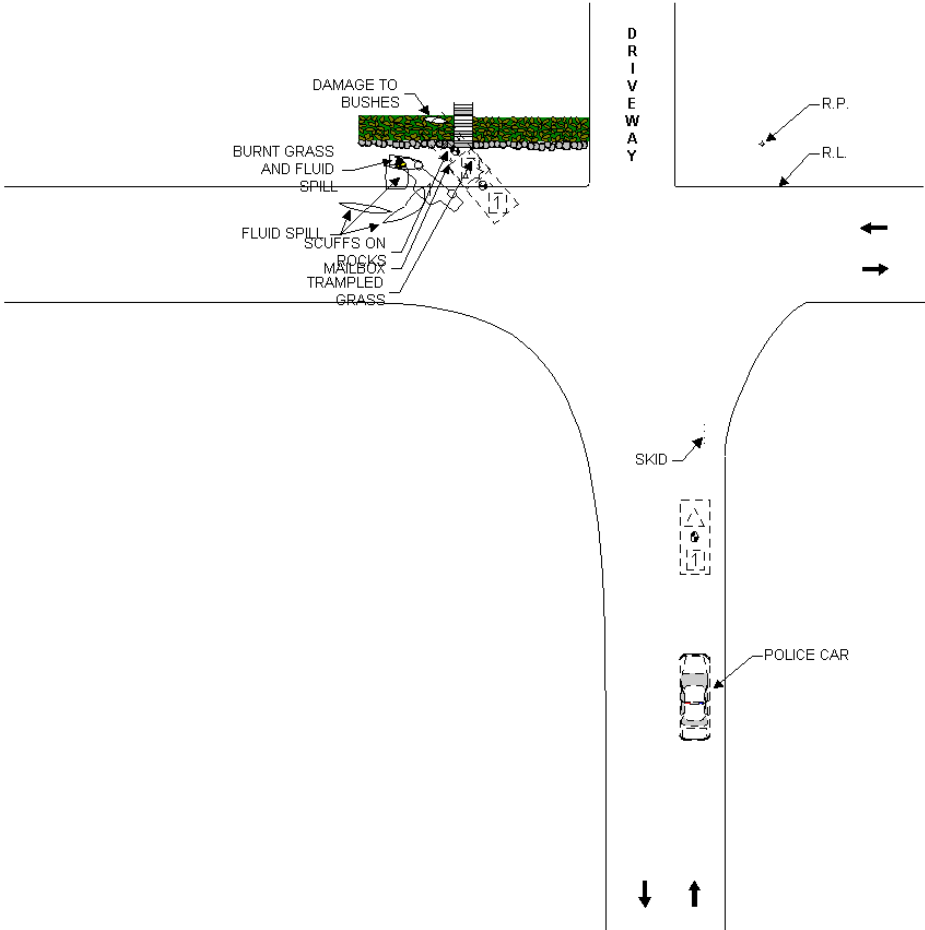
Summary:

Vehicle #1 was traveling west in lane one on a two lane, two-way roadway. V1 was traveling at a high rate of speed and was being pursued by police. The street V1 was traveling on came to a "T" intersection. The driver of V1 attempted to make a left turn onto the intersecting street. The driver lost control of the vehicle, drove onto the right shoulder of the roadway and the FRONT of V1 impacted a mailbox post. V1 continued forward and the FRONT and UNDERCARRIAGE of V1 impacted several stone steps. . V1 continued forward and the FRONT of V1 impacted an embankment. Then V1 rolled onto its LEFT side and a MINOR FIRE started from fluids that had leaked from V1's engine after the rollover. The engine and body of V1 were not damaged by the fire; the driver was not injured due to the fire. The driver of V1 was transported to an area trauma center where he was hospitalized for several days. Both the driver and passenger airbags deployed during the accident. V1 was towed disabled.

82 - 063J



SCALE: 1 CM = 2.5 M



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Dodge	Caravan	1994	1	16	MALE	3=Serious

Occupant: 1997-82-63-1-1



Fire Information

Fire Occurence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	1 QUARTER TURN
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 3
CDC	12 F D E W 3
Damage (C1-C6)	8 8 28 44 58 39
Crush (L and D)	190 0
Object Contacted 1	EMBANKMENT
Object Contacted 2	ROLLOVER-OVERTURN

NASS Weighting Factor

Weighting factor	5.1935761686
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Rollover Characteristics

Number of Events	5
Rollover Initiation Type	BOUNCE-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object	EMBANKMENT
Contacted	
Location on Vehicle where Principal Tripping Force was Applied	END PLANE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Dodge Caravan
Year	1994
Class	PASSENGER CAR
Body Type	MINIVAN
Weight	145

Pre-Crash Driver Data

Accident Type	14
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Maneuver	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	16	Height	0	Weight	0
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

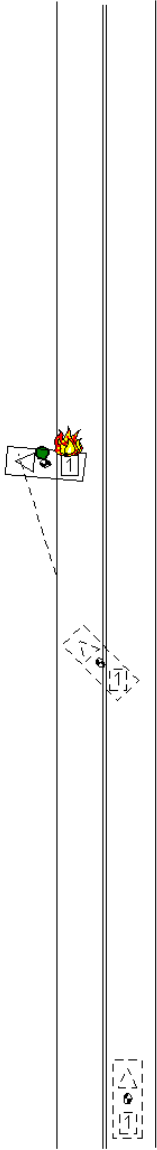
Occupant	1997-82-63-1-1
MAIS	3=Serious
Seat Position	Front left side

AIS Level	Injury Description	Contacts
3=Serious	Femoral shaft fracture	Steering rim
1=Minor	Finger fracture	Left interior
1=Minor	Thoracic skin abrasion	Air bag-DR side

102 Case 1997-9-20

Summary:

VEHICLE ONE WAS TRAVELING SOUTH ON A TWO LANE ROADWAY. VEHICLE ONE ENTERS AN AREA OF STANDING WATER AND LOSES CONTROL. VEHICLE ONE CONTINUES ON AND ROTATES COUNTER CLOCKWISE AND DEPARTS THE ROADWAY TO THE LEFT. VEHICLE ONE'S RIGHT PLANE STRIKES A VERY LARGE TREE, COMES TO REST AND IS ENGULFED IN FLAMES. THE DRIVER IS FATALLY INJURED AND THE VEHICLE IS TOWED DUE TO SEVERE DAMAGE.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Lexus	ES-250/300	1990	1	26	MALE	6=Maximum

Occupant: 1997-9-20-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Other
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Other damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	68 -12 -67
Est. δV with sequence number	DELTA V CODED 1
CDC	63 R P A W 5
Damage (C1-C6)	12 28 90 88 45 15
Crush (L and D)	218 -5
Object Contacted 1	LARGE TREE
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	42.074521478
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DUSK
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Lexus ES-250/300
Year	1990
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	144

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	No DRIVER
Critical Pre-crash Event	POOR ROAD CONDIT
Attempted Avoidance Maneuver	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	26	Height	188	Weight	73
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

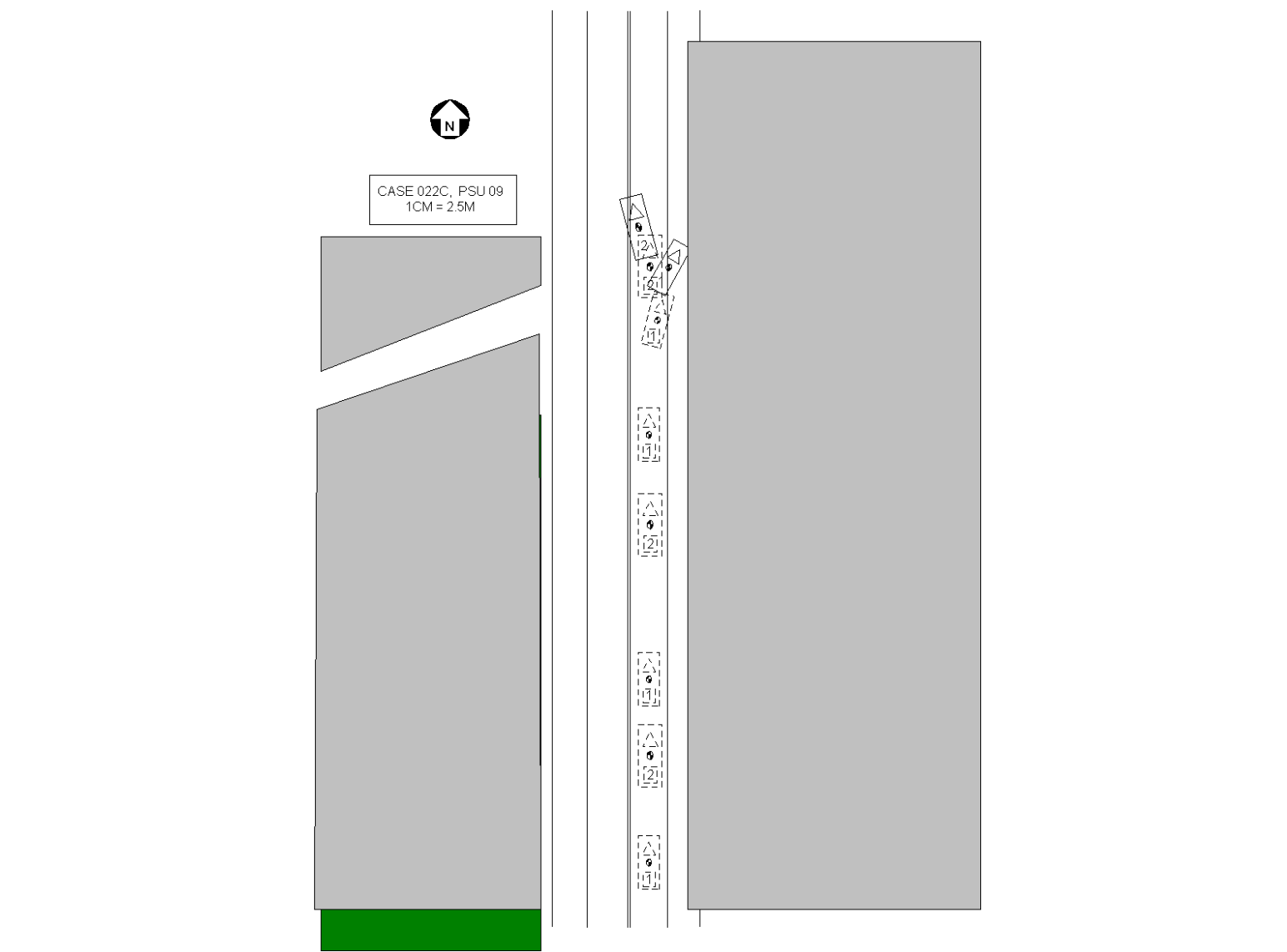
Occupant	1997-9-20-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >904=Severe	>3 rib fxs on one side & <3 other side & hemo-/pneumothorax
Unknown	SOURCE	

103 Case 1997-9-22

Summary:

VEHICLE ONE AND TWO WERE TRAVELING NORTH ON A TWO LANE ROADWAY. VEHICLE TWO LEADING VEHICLE ONE. VEHICLE TWO COMES TO A COMPLETE STOP FOR TURNING TRAFFIC IN FRONT OF IT. VEHICLE ONE STEERS RIGHT. VEHICLE ONE' S FRONT PLANE CONTACTS VEHICLE TWO'S BACK PLANE. BOTH VEHICLES ARE TOWED DUE TO DAMAGE. ALL THREE OCCUPANTS OF VEHICLE TWO ARE TRANSPORTED AND RELEASED. TWO OF THE THREE OCCUPANTS OF VEHICLE ONE ARE TRANSPORTED AND RELEASED.



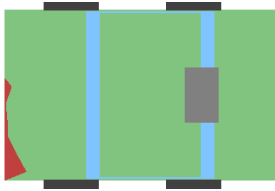
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Hyundai	Elantra	1995	1	26	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Hyundai	Elantra	1995	2	61	FEMALE-NOT PREG	1=Minor
1	4-DR SEDAN/HDTOP	Hyundai	Elantra	1995	3	10	MALE	0=None
2	4-DR SEDAN/HDTOP	Eagle	Vision	1996	1	48	FEMALE-NOT PREG	0=None
2	4-DR SEDAN/HDTOP	Eagle	Vision	1996	2	1	MALE	0=None
2	4-DR SEDAN/HDTOP	Eagle	Vision	1996	3	60	FEMALE-NOT PREG	7=Unk. sev.

Occupant: 1997-9-22-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -27 -2
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	32 18 5 4 2 11
Crush (L and D)	150 -34
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	110.49232401
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Hyundai Elantra
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	113

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	26	Height	163	Weight	125
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-22-1-1
MAIS	1=Minor
Seat Position	Front left side

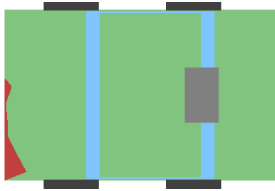
AIS Level	Injury Description	Contacts
1=Minor	Neck skin contusion (hematoma)	Belt webb/buckle
1=Minor	Upper extremity skin contusion	Belt webb/buckle

Occupant: 1997-9-22-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -27 -2
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	32 18 5 4 2 11
Crush (L and D)	150 -34
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	110.49232401
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Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Hyundai Elantra
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	113

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	61	Height	165	Weight	69
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-22-1-2
MAIS	1=Minor
Seat Position	Front right side

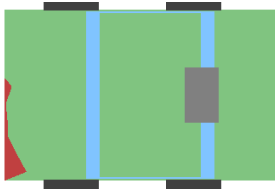
AIS Level	Injury Description	Contacts
1=Minor	Thoracic skin contusion	Belt webb/buckle

Occupant: 1997-9-22-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Hyundai Elantra
Year	1995
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	113

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	27 -27 -2
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F Y E W 3
Damage (C1-C6)	32 18 5 4 2 11
Crush (L and D)	150 -34
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	20
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	STOPPED
Attempted Avoidance Manuever	STEERING RIGHT
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	110.49232401
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	10	Height	158	Weight	54
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-22-1-3
MAIS	0=None
Seat Position	Second right

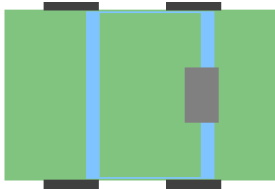
AIS Level	Injury Description	Contacts
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Occupant: 1997-9-22-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Vent/emiss recov
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Eagle Vision
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	153

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 21 2
Est. δV with sequence number	DELTA V CODED 1
CDC	0 B 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	110.49232401
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DRIVER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	48	Height	163	Weight	82
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-22-2-1
MAIS	0=None
Seat Position	Front left side

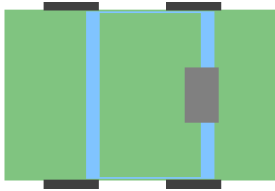
AIS Level	Injury Description	Contacts
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Occupant: 1997-9-22-2-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Vent/emiss recov
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Eagle Vision
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	153

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 21 2
Est. δV with sequence number	DELTA V CODED 1
CDC	0 B 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	110.49232401
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	1	Height	76	Weight	16
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	Lap+sh w/ch seat
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-22-2-2
MAIS	0=None
Seat Position	Second right

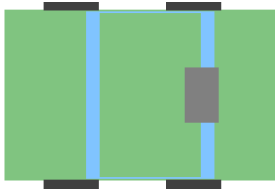
AIS Level	Injury Description	Contacts
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Occupant: 1997-9-22-2-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Vent/emiss recov
Type of Fuel Tank	Non-metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Eagle Vision
Year	1996
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	153

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	21 21 2
Est. δV with sequence number	DELTA V CODED 1
CDC	0 B 9 9 9 0
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

Pre-Crash Driver Data

Accident Type	21
Pre-event Movement	STOPPED IN LANE
Critical Pre-crash Event	Same DIR-HISPEED
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

NASS Weighting Factor

Weighting factor	110.49232401
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PASSENGER Factors

Rollover Characteristics

Number of Events	1
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Age	60	Height	168	Weight	64
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	NONDEPLOYED
Airbag Deployment - 1 st Seat	NONDEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

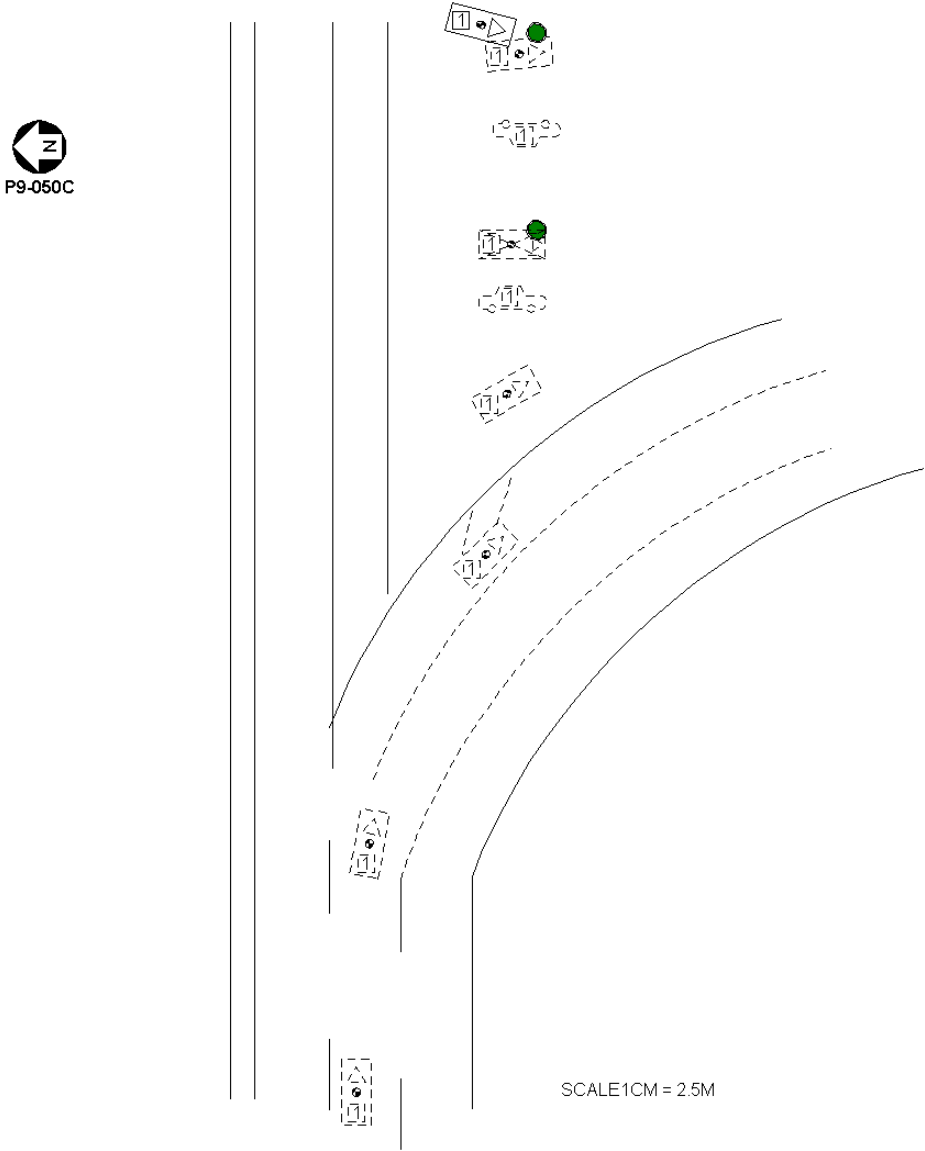
Occupant	1997-9-22-2-3
MAIS	7=Unk. sev.
Seat Position	Front right side

AIS Level	Injury Description	Contacts
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104 Case 1997-9-50

Summary:

Vehicle one was traveling east in lane two of a three lane exit ramp. While attempting to negotiate the ramp's right hand curve at a high rate of speed, the driver lost control and departed the left side of the ramp. The vehicle began to rollover to the left side. While rolling over, V1 struck the top of a tree, possibly with it's undercarriage. V1 continued to roll for a total of three turns and came to final rest after striking a second tree with the left plane. The driver was fully ejected. V1 was towed due to damage. Both occupants were transported with "A" injuries.



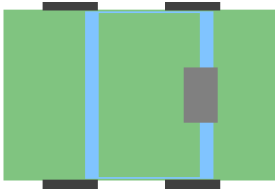
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	MINIVAN	Dodge	Caravan	1994	1	19	MALE	4=Severe
1	MINIVAN	Dodge	Caravan	1994	2	39	MALE	2=Moderate

Occupant: 1997-9-50-1-1



Fire Information

Fire Occurence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	14

Crash Severity

Nr. Quarter Turns	12 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	0 T D D O 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	76.220962244
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	FALL-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Dodge Caravan
Year	1994
Class	TRUCK
Body Type	MINIVAN
Weight	155

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

DRIVER Factors

Age	19	Height	180	Weight	64
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-50-1-1
MAIS	4=Severe
Seat Position	Front left side

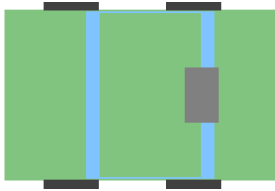
AIS Level	Injury Description	Contacts
4=Severe	Lung contusion, bilateral	Steering rim
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Steering rim
2=Moderate	Pelvic fracture, closed	Left interior
3=Serious	Symphysis pubis separation or fracture	Left interior
1=Minor	690202	Left B pillar
1=Minor	Leg skin contusion (hematoma)	Left interior
1=Minor	Abdominal skin contusion	Left interior
1=Minor	Upper extremity skin abrasion	Ground
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Abdominal skin abrasion	Left interior
1=Minor	Scalp laceration, NFS	Ground
2=Moderate	Lethargic on admission, unconscious (length NFS)	Ground

Occupant: 1997-9-50-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, forward rear axle
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	12 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	0 T D D O 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	LARGE TREE

NASS Weighting Factor

Weighting factor	76.220962244
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	FALL-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	TURN/FALL-OVER
Location on Vehicle where Principal Tripping Force was Applied	NONCONTACT FORCE
Direction of Initial Roll	ROLL LEFT

Pre-Crash Environment

Traffic Flow	ONE WAY
Number of Travel Lanes	THREE
Roadway Alignment	CURVE RIGHT
Roadway Profile	UPHILL GRADE
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK/LIGHTED
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	INTERCHANGE REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	14

Vehicle Factors

Make-Model	Dodge Caravan
Year	1994
Class	TRUCK
Body Type	MINIVAN
Weight	155

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	DEPARTED ROADWAY

PASSENGER Factors

Age	39	Height	173	Weight	64
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR
PAS BAG DEPLY	
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

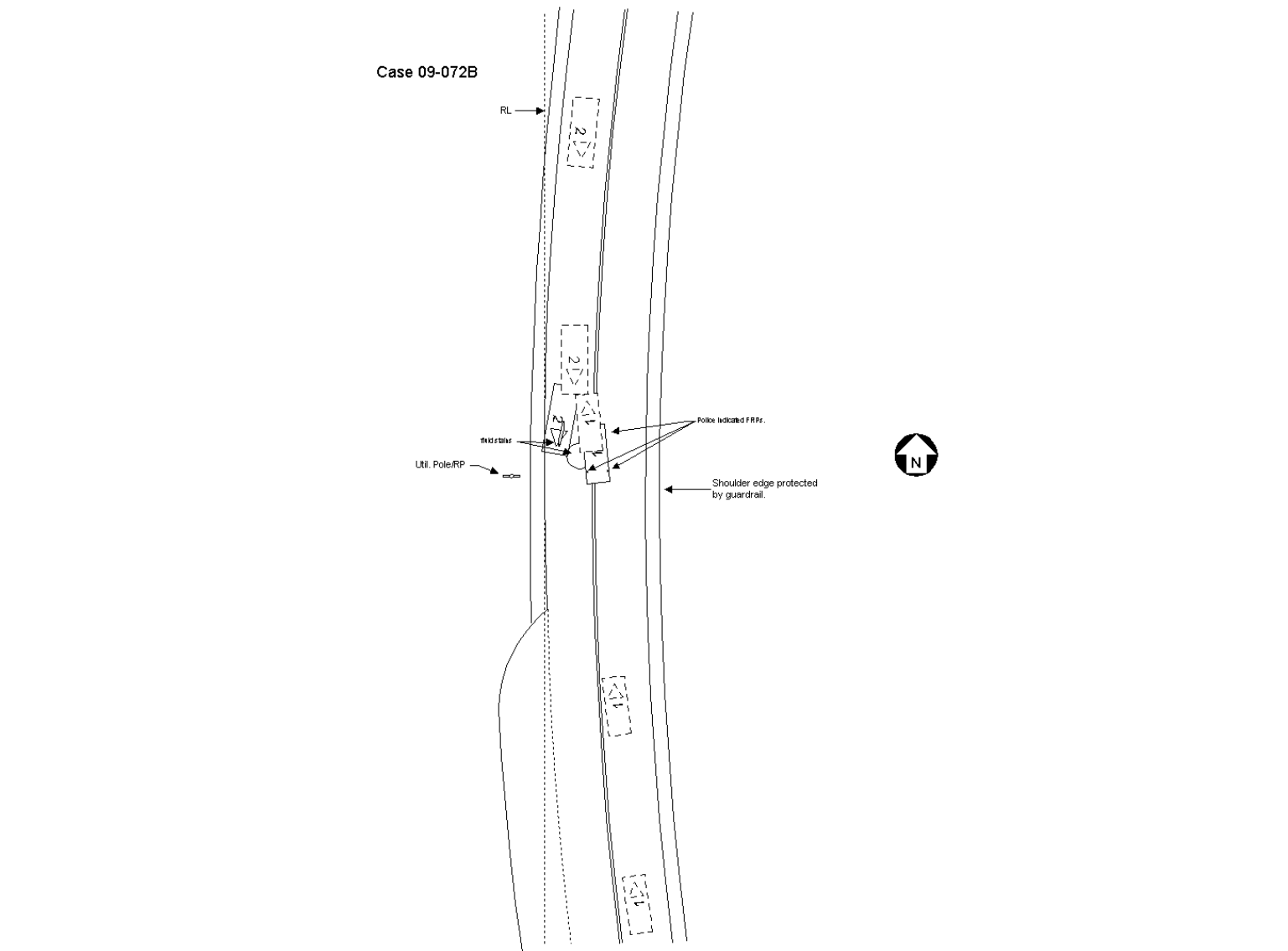
Occupant	1997-9-50-1-2
MAIS	2=Moderate
Seat Position	Front right side

AIS Level	Injury Description	Contacts
2=Moderate	Acromioclavicular joint dislocation	Roof right rail
1=Minor	Upper extremity skin laceration, minor	Transmiss lever
1=Minor	Upper extremity skin abrasion	Transmiss lever
1=Minor	Skin abrasion (body region unknown)	Unknown SOURCE

105 Case 1997-9-72

Summary:

VEHICLE ONE WAS TRAVELING NORTH ON A TWO LANE UNDIVIDED ROADWAY. VEHICLE TWO WAS TRAVELING SOUTH ON THE SAME ROADWAY AS VEHICLE ONE IN THE OPPOSITED DIRECTION. FOR UNKNOWN REASONS, VEHICLE ONE TRAVEL OVER THE CENTERLINE AND STRIKES VEHICLE TWO HEAD-ON. BOTH VEHICLES COME TO REST IN THE ROADWAY. VEHICLE ONE SUSTAINS A MINOR FIRE IN THE ENGINE COMPARTMENT. BOTH VEHICLES WERE TOWED DUE TO DAMAGE. THE DRIVER AND SOLE OCCUPANT OF VEHICLE ONE IS TRANSPORTED WITH INCAPCIATATING INJURIES AND WAS HOSPITALIZED. THE DRIVER AND SOLE OCCUPANT OF VEHICLE TWO WAS KILLED.



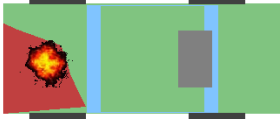
Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	3DR/2DR HATCHBAK	Mitsubishi	Eclipse	1990	1	19	MALE	3=Serious
2	2DR SEDAN/HT/CPE	Oldsmobile	Cutlass RWD	1972	1	85	MALE	6=Maximum

Occupant: 1997-9-72-1-1



Fire Information

Fire Occurrence	Minor fire
Fire Origin	Engine compart
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Forward of rear axle, centered
Fuel Cap Location	Left side, behind rear axle
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	6

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	12 F Y E W 5
Damage (C1-C6)	127 115 104 98 89 22
Crush (L and D)	140 -37
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	39.046666084
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Mitsubishi Eclipse
Year	1990
Class	PASSENGER CAR
Body Type	3DR/2DR HATCHBAK
Weight	114

Pre-Crash Driver Data

Accident Type	50
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OVER LINE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	Left TRAVEL LANE

DRIVER Factors

Age	19	Height	170	Weight	62
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-72-1-1
MAIS	3=Serious
Seat Position	Front left side

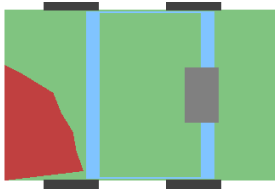
AIS Level	Injury Description	Contacts
3=Serious	Unconscious on admission, length NFS	Roof
3=Serious	Basilar skull fracture, NFS	Front header
3=Serious	Diaphragm laceration or rupture	Sterring hub
2=Moderate	Splenic laceration, minor (tear<3cms deep, no major vessel)	Steering rim
3=Serious	Radial fracture, open/displaced/comminuted	Left apnel
3=Serious	Ulnar fracture, open/displaced/comminuted	Left apnel
1=Minor	Facial skin laceration, minor	Steering rim
3=Serious	Symphysis pubis separation or fracture	Left apnel
2=Moderate	Humeral fracture, closed	Left apnel
1=Minor	Abdominal skin abrasion	Steering rim
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin abrasion	Floor
1=Minor	Facial skin abrasion	Windshield
1=Minor	Scalp contusion	Windshield
1=Minor	Upper extremity skin abrasion	Left apnel
3=Serious	Cerebral pneumocephalus	Front header
3=Serious	Cerebral pneumocephalus	Front header
2=Moderate	Colonic contusion (hematoma)	Steering rim
3=Serious	Lung laceration NFS	Sterring hub

Occupant: 1997-9-72-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Deformed
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE LEFT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DAYLIGHT
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	SEVERE 1
CDC	52 F Y E W 4
Damage (C1-C6)	115 106 100 83 72 27
Crush (L and D)	170 -57
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	39.046666084
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Oldsmobile Cutlass RWD
Year	1972
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	159

Pre-Crash Driver Data

Accident Type	51
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	85	Height	168	Weight	82
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

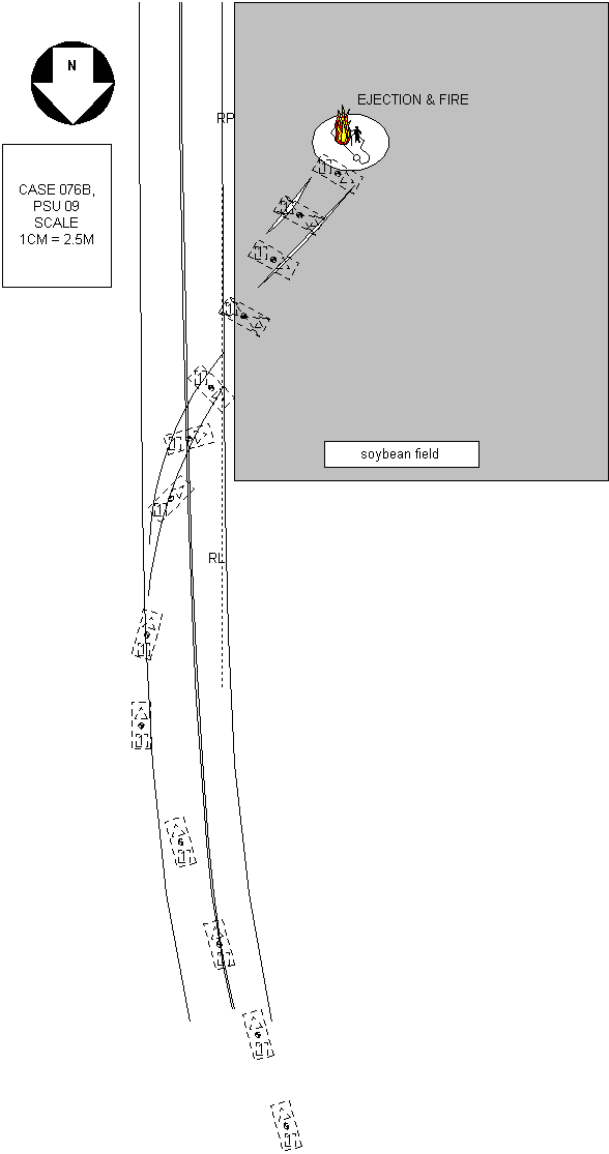
Occupant	1997-9-72-2-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Thoracic aortic laceration, and extramedastinal bleeding	Sterring hub
1=Minor	297602	Flying glass
1=Minor	Facial skin abrasion	Left apnel
1=Minor	Scalp laceration, minor	Unknown SOURCE
4=Severe	Flail chest, with lung contusion	Steering comb
1=Minor	Upper extremity skin laceration, minor	Steering rim
1=Minor	Thoracic skin abrasion	Steering rim
1=Minor	Thoracic skin laceration, minor	Steering rim
1=Minor	Thoracic skin contusion	Steering rim
1=Minor	Abdominal skin abrasion	Steering rim
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
1=Minor	Leg skin abrasion	Left apnel
1=Minor	Leg skin laceration, minor	Left apnel
1=Minor	Leg skin contusion (hematoma)	Left apnel
2=Moderate	Clavicle fracture	Left apnel
2=Moderate	Thoracic spine fracture, no cord injury, NFS	Steering comb
2=Moderate	Colonic contusion (hematoma)	Steering rim

106 Case 1997-9-76

Summary:

Vehicle one was traveling south on a two lane undivided road. While negotiating a right curve in the road, V1 departed the left roadside. V1 then returned onto the road and began to rotate clockwise. The driver lost control and exited the right roadside. After exiting the road, V1 rolled over 2-1/4 turns to it's left before coming to final rest on it's left side. The driver was ejected and became trapped under the vehicle. V1 then became fully engulfed in flames. V1 was towed due to damage. The driver was killed.



Vehicle	Body type	Make	Model	Year	Occ.#	Age	Occupant's sex	Maximum known occupant ais
1	COMPACT UTILITY	Jeep	CJ-5/CJ-6/CJ-7/CJ-8	1979	1	27	MALE	6=Maximum

Occupant: 1997-9-76-1-1



Fire Information

Fire Occurrence	Major fire
Fire Origin	Fuel tank
Location of Fuel Leakage	Filler neck
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Fill neck separation
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	Not DIVIDED
Number of Travel Lanes	TWO
Roadway Alignment	CURVE RIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	DRY
Light Conditions	DARK
Atmospheric Conditions	No ADVERSE COND
Relation to Intersection	NONINTER/NONJUNC
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	15

Crash Severity

Nr. Quarter Turns	9 QUARTER TURNS
Impact Speed	< 0.5KMPH
Total, Longitudal, and Lateral δV	< 0.5 KMPH < 0.5 KMPH < 0.5 KMPH
Est. δV with sequence number	MODERATE 1
CDC	0 T D D O 4
Damage (C1-C6)	0 0 0 0 0 0
Crush (L and D)	0 0
Object Contacted 1	ROLLOVER-OVERTURN
Object Contacted 2	0

NASS Weighting Factor

Weighting factor	20.408030608
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Rollover Characteristics

Number of Events	2
Rollover Initiation Type	TRIP-OVER
Location of Rollover Initiation	ROADSIDE/MEDIAN
Rollover Initiation Object Contacted	GROUND
Location on Vehicle where Principal Tripping Force was Applied	WHEELS/TIRES
Direction of Initial Roll	ROLL LEFT

Vehicle Factors

Make-Model	Jeep CJ-5/CJ-6/CJ-7/CJ-8
Year	1979
Class	PASSENGER CAR
Body Type	COMPACT UTILITY
Weight	121

Pre-Crash Driver Data

Accident Type	7
Pre-event Movement	NEGOTIATE CURVE
Critical Pre-crash Event	OFF EDGE-LEFT
Attempted Avoidance Manuever	No DRIVER
Pre-impact Stability	No DRIVER
Pre-impact Location	RETURNED TO ROAD

DRIVER Factors

Age	27	Height	183	Weight	86
Gender					MALE
Ejection					COMPLETE EJECT
Ejection Area					Left FRONT
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	NO
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

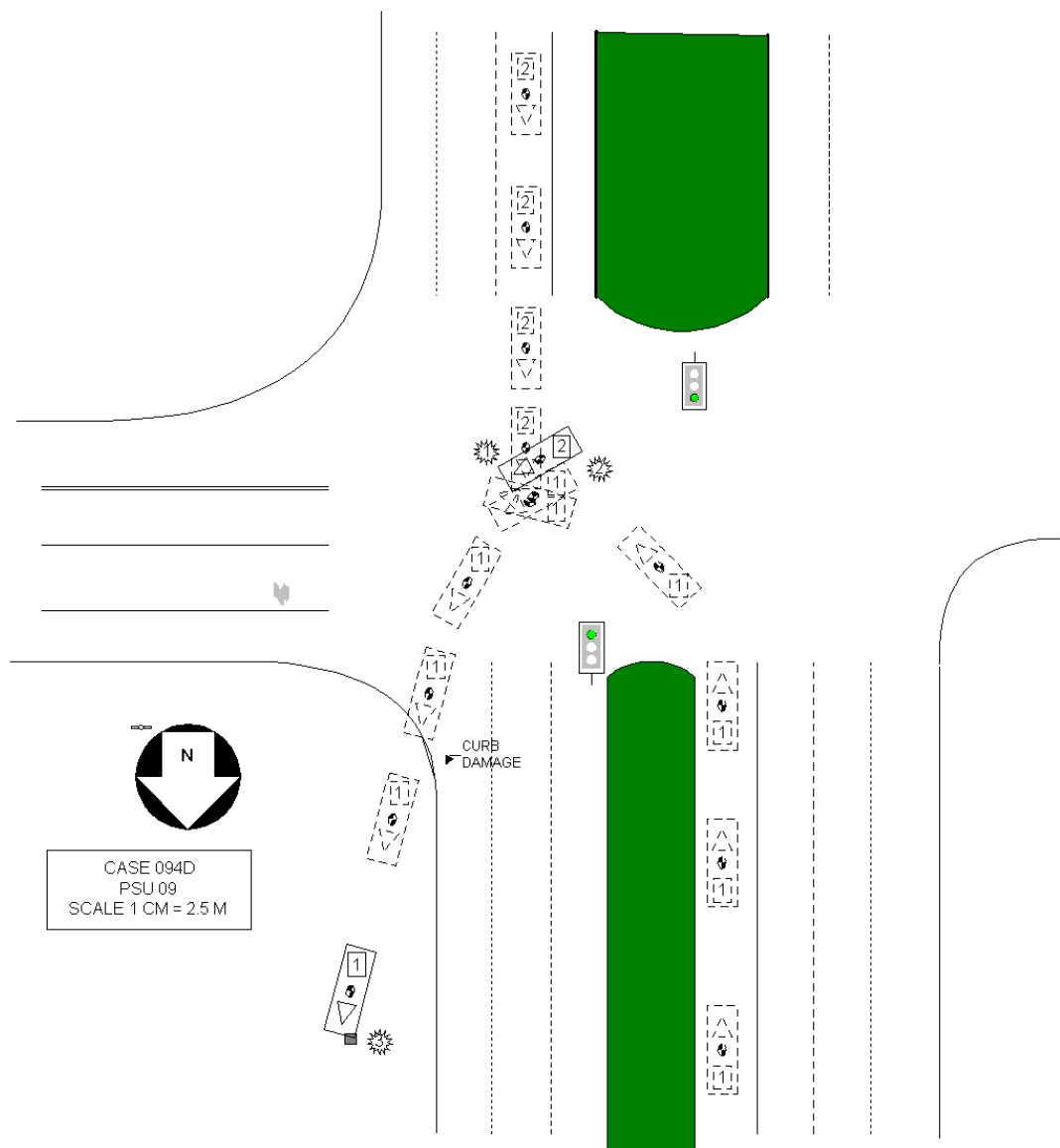
Occupant	1997-9-76-1-1
MAIS	6=Maximum
Seat Position	Front left side

AIS Level	Injury Description	Contacts
6=Maximum	Burn, 2nd or 3rd degree, >903=Serious	Traumatic leg amputation below the knee (foot/calcaneus)
Other exterior		

107 Case 1997-9-94

Summary:

VEHICLE ONE WAS TRAVELING SOUTH IN LANE NUMBER FOUR OF A FOUR LANE DIVIDED ROADWAY APPROACHING AN INTERSECTION. VEHICLE TWO WAS TRAVELING NORTH ON THE SAME ROADWAY IN LANE NUMBER THREE, APPROACHING THE SAME INTERSECTION AS VEHICLE ONE. VEHICLE ONE TURNS LEFT AND ENTERS THE INTERSECTION. VEHICLE TWO ENTERS THE INTERSECTION. VEHICLE TWO'S FRONT PLANE CONTACTS VEHICLE ONE'S RIGHT SIDE PLANE. VEHICLE TWO ROTATES CLOCKWISE. VEHICLE ONE ROTATES COUNTER CLOCKWISE. VEHICLE ONE'S RIGHT SIDE PLANE CONTACTS VEHICLE TWO'S LEFT SIDE PLANE. VEHICLE TWO COMES TO REST IN THE INTERSECTION. VEHICLE ONE DEPARTS THE INTERSECTION AT THE NORTH EAST CORNER AND STRIKES A SIGN SUPPORT POLE WITH IT'S FRONT PLANE AND COMES TO REST. BOTH VEHICLES ARE TOWED DUE TO DAMAGE. THE DRIVER AND SOLE OCCUPANT OF VEHICL TWO IS TRANSPORTED, TREATED AND RELEASED. VEHICLE ONE'S RIGHT FRONT SEAT PASSENGER IS TRANSPORTED AND HOSPITALIZED WITH INCAPCIATATING INJURIES.



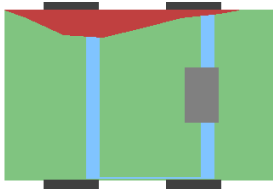
Vehicle	Body type	Make	Model	Year	Occ Age	Occupant's sex	Maximum known occupant ais
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1992	49	MALE	1=Minor
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1992	72	FEMALE-NOT PREG	5=Critical
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1992	8	MALE	0=None
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1992	6	FEMALE-NOT PREG	0=None
1	4-DR SEDAN/HDTOP	Cadillac	Deville/Fleetwood	1992	47	FEMALE-NOT PREG	0=None
2	2DR SEDAN/HT/CPE	Lincoln	Mark	1990	72	MALE	2=Moderate

Occupant: 1997-9-94-1-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -5 -27
Est. δV with sequence number	DELTA V CODED 1
CDC	43 R Y E W 3
Damage (C1-C6)	9 36 40 26 11 5
Crush (L and D)	345 23
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	135.99462021
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	194

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	49	Height	163	Weight	59
Gender			MALE		
Ejection			No EJECTION		
Ejection Area			No EJECTION		
Entrapment			Not ENTRAPPED		

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-94-1-1
MAIS	1=Minor
Seat Position	Front left side

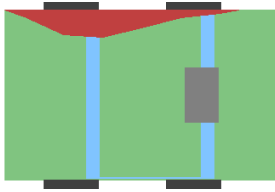
AIS Level	Injury Description	Contacts
1=Minor	Rib cage injury NFS	Unknown SOURCE

Occupant: 1997-9-94-1-2



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -5 -27
Est. δV with sequence number	DELTA V CODED 1
CDC	43 R Y E W 3
Damage (C1-C6)	9 36 40 26 11 5
Crush (L and D)	345 23
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	135.99462021
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	194

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	72	Height	163	Weight	68
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-94-1-2
MAIS	5=Critical
Seat Position	Front right side

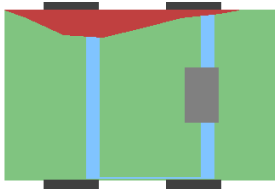
AIS Level	Injury Description	Contacts
5=Critical	Cerebral subdural hematoma, small (<50ccs), bilateral	OMV hood edge
5=Critical	Unconscious on admission, moves only to pain & neuro deficit	OMV hood edge
2=Moderate	Pelvic fracture, closed	Right interior
1=Minor	Teeth avulsion	Right wind frame
1=Minor	Leg skin contusion (hematoma)	Right interior
3=Serious	Cerebral subarachnoid hemorrhage	OMV hood edge
3=Serious	Cerebral subarachnoid hemorrhage	OMV hood edge
4=Severe	Lung contusion, bilateral	Right interior
3=Serious	2-3 rib fractures with stable chest and hemo-/pneumothorax	Right interior

Occupant: 1997-9-94-1-3



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -5 -27
Est. δV with sequence number	DELTA V CODED 1
CDC	43 R Y E W 3
Damage (C1-C6)	9 36 40 26 11 5
Crush (L and D)	345 23
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	135.99462021
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	194

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	8	Height	122	Weight	31
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-94-1-3
MAIS	0=None
Seat Position	Second left

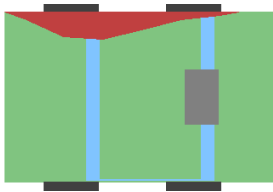
AIS Level	Injury Description	Contacts
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Occupant: 1997-9-94-1-4



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -5 -27
Est. δV with sequence number	DELTA V CODED 1
CDC	43 R Y E W 3
Damage (C1-C6)	9 36 40 26 11 5
Crush (L and D)	345 23
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	135.99462021
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	194

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	6	Height	107	Weight	22
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	None used/avail
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-94-1-4
MAIS	0=None
Seat Position	Second middle

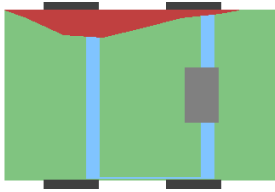
AIS Level	Injury Description	Contacts
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Occupant: 1997-9-94-1-5



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	Tank
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	On back plane
Fuel Tank Damage	Punctured
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	28 -5 -27
Est. δV with sequence number	DELTA V CODED 1
CDC	43 R Y E W 3
Damage (C1-C6)	9 36 40 26 11 5
Crush (L and D)	345 23
Object Contacted 1	VEHICLE NO. 2
Object Contacted 2	LARGE POLE

NASS Weighting Factor

Weighting factor	135.99462021
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Cadillac Deville/Fleetwood
Year	1992
Class	PASSENGER CAR
Body Type	4-DR SEDAN/HDTOP
Weight	194

Pre-Crash Driver Data

Accident Type	68
Pre-event Movement	TURNING LEFT
Critical Pre-crash Event	TURN LEFT-INTERS
Attempted Avoidance Manuever	No AVOIDANCE
Pre-impact Stability	TRACKING
Pre-impact Location	STAYED IN LANE

PASSENGER Factors

Age	47	Height	165	Weight	73
Gender					FEMALE-NOT PREG
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	Not EQUIP/AVAIL
Airbag Deployment - 1 st Seat	Not EQUIP/AVAIL
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-94-1-5
MAIS	0=None
Seat Position	Second right

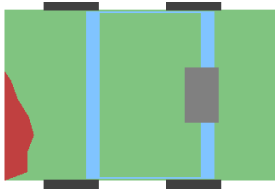
AIS Level	Injury Description	Contacts
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Occupant: 1997-9-94-2-1



Fire Information

Fire Occurrence	No fire
Fire Origin	No fire
Location of Fuel Leakage	No fuel leakage
Type of Fuel Tank	Metallic
Fuel Tank Location	Behind rear axle, centered
Fuel Cap Location	Right side, behind rear axle
Fuel Tank Damage	No damage
Fuel Type	Gasoline



Crash Severity

Nr. Quarter Turns	No rollover
Impact Speed	998
Total, Longitudal, and Lateral δV	34 -34 6
Est. δV with sequence number	DELTA V CODED 1
CDC	12 F D E W 2
Damage (C1-C6)	34 33 43 35 19 9
Crush (L and D)	160 0
Object Contacted 1	VEHICLE NO. 1
Object Contacted 2	VEHICLE NO. 1

NASS Weighting Factor

Weighting factor	135.99462021
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Rollover Characteristics

Number of Events	3
Rollover Initiation Type	No rollover
Location of Rollover Initiation	No rollover
Rollover Initiation Object Contacted	No rollover
Location on Vehicle where Principal Tripping Force was Applied	No rollover
Direction of Initial Roll	No rollover

Pre-Crash Environment

Traffic Flow	DVDED/NO BARRIER
Number of Travel Lanes	FOUR
Roadway Alignment	STRAIGHT
Roadway Profile	LEVEL
Roadway Surface Type	ASPHALT
Roadway Surface Condition	WET
Light Conditions	DAYLIGHT
Atmospheric Conditions	RAIN
Relation to Intersection	INTERSECTION REL
Traffic Control Device	
Police Reported Alcohol Presence	No ALCOHOL
Alcohol Test (< 95 indicates BAC 0.xx)	0

Vehicle Factors

Make-Model	Lincoln Mark
Year	1990
Class	PASSENGER CAR
Body Type	2DR SEDAN/HT/CPE
Weight	171

Pre-Crash Driver Data

Accident Type	69
Pre-event Movement	GOING STRAIGHT
Critical Pre-crash Event	OPP DIR-OVR LEFT
Attempted Avoidance Manuever	BRAKE W/O LOCKUP
Pre-impact Stability	LONGITUDINAL SKID
Pre-impact Location	STAYED IN LANE

DRIVER Factors

Age	72	Height	183	Weight	88
Gender					MALE
Ejection					No EJECTION
Ejection Area					No EJECTION
Entrapment					Not ENTRAPPED

Restraint Factors

Restrain	Lap and shoulder
AOPS	YES-RES DET
Airbag Deployment	BAG DEPLOYED
Airbag Deployment - 1 st Seat	DR BAG DEPLOYED
Airbag Deployment - Oth Seat	Not EQUIP W/ OTH

Injuries

Occupant	1997-9-94-2-1
MAIS	2=Moderate
Seat Position	Front left side

AIS Level	Injury Description	Contacts
2=Moderate	Carpus or metacarpus fracture	Left apnel